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CHOICE IOWA SEEDS

56th ANNUAL
CATALOGUE

1921

ONLY ONE
THE BEST
QUALITY

62,27

Soy
Beans

Iowa
Gold Mine
Corn



Dwarf
Essex
Rape

SEEDSMEN TO THE AMERICAN PEOPLE

IOWA SEED CO. DES MOINES
IOWA U.S.A.

1865

United States Food Administration
License No. G 30069

1921

Fiftysix Years Successful Business!

Des Moines, Iowa, January, 1921

Greeting to Our Customers

We want to express our sincere thanks to our customers for the business given us last year. Our sales continue to increase in volume. In a few instances items which we formerly offered are not available. The best part of our line however, is not disturbed and prices for the current season remain about the same as a year ago except in the case of farm seeds which are generally cheaper. Compared with other lines of merchandise, seeds are low in price and cost to the consumer. Generally speaking you can afford to use all the seeds that you can plant to advantage. The crops this season are good and the seeds we offer are of the very highest quality and we feel more certain than ever that we will give satisfaction to our friends. Our continued growth and the increasing confidence of patrons lead us to believe that we are fully entitled to our position as

"SEEDSMEN TO THE AMERICAN PEOPLE"

OUR GUARANTEE

In trading by mail you have to buy seeds without seeing them. We protect you in this, however, because if any seeds from us are not satisfactory upon arrival and inspection return them to us and we will refund the money you paid for them. With this agreement you can purchase your seeds of us in every confidence and just as well as though you traded over our counters. You are sole judge; all we require is that they shall be sent back to us within fifteen days from date of receipt by you. This applies to garden, farm and flower seeds. We cannot guarantee a crop, but we can and do guarantee to take seeds back that you yourself are not pleased with. The fifteen days will give you ample time to test them in any way you want. It will give you time to send samples for inspection, analysis or test to the State Seed Inspector or to the Agricultural Experiment Station. Our stocks will stand the closest scrutiny and we are ready to be judged accordingly. You will readily see that we could not make this offer unless our stocks were first class and would give satisfaction to the purchaser.

TO OUR NEW FRIENDS

Each year this catalogue goes to prospective buyers who have never traded with us and are not acquainted with our stocks or methods. To such just a few words of solicitation. This book is compiled with great care that it may be a help to you in your gardening and farming operations. Both text and illustrations are truthful in detail and it will be found a real guide to better farms and better gardens. Read it carefully, weigh all the statements and send us a trial order. We will gladly leave in your hands the question of future and continued patronage. Each year our friends increase in number, and this is because those who give us trial orders become firm friends and continuous patrons. We sell the best possible stocks at the lowest prices consistent with profitable merchandizing. Price, however, must be second to quality. You do not want poor seeds at any price. We affirm without qualification that our prices are as low as quality supplied will justify. We want your trade and will give value received in quality seeds for money sent us.

Iowa Seed Company, 209-211 Walnut St. Des Moines, Iowa

SUGGESTIONS TO CUSTOMERS

Our constant aim is to make the highest quality the first consideration, and next to put our prices as low as good seed can be sold

Order Early: The best time to order is just as soon as you receive this catalogue, as we can always give your orders more of our personal attention if they come in before the rush of the spring trade. Please use the order sheet, as it makes it more convenient for us in filling orders. You will note there are two order sheets enclosed; one for seeds, tools and miscellaneous goods, and the other for plants, bulbs and nursery stock. If you will use them as intended, it will greatly facilitate the execution of your orders. Terms are invariably cash with order, as we keep no book accounts in our mail order department, and the expense of sending goods C. O. D. is quite large. Postage stamps received the same as cash.

Shipping: There are three interurban companies and fifteen railroad lines at Des Moines, so that quick shipments can be made to any town in the United States.

Charges Prepaid: All Vegetable and Flower Seeds, Bulbs and Plants, except those noted, are sent prepaid by mail or express by the quickest and most direct routes, unless ordered otherwise, and we guarantee the safe arrival. Seeds sold by the peck or bushel, Field Seeds, Potatoes, Implements and other heavy goods are sent by freight or express, customers paying charges. Remember seeds go at special rates by express.

Seeds by Mail: Seeds, plants and bulbs may be sent by Parcel Post. The table of rates, page 2, gives amount of postage required on quantities over 1 pound. Miscellaneous merchandise may go by Parcel Post, and mailing weight is given on items of this kind.

Delivery: The point of delivery of all goods is on cars at Des Moines. When we quote a delivery price it means simply that we prepay the freight, express charges or postage.

Many of our former customers live at railroad stations where there are no agents. In such cases we must request them to send sufficient money to prepay freight charges or heavy shipments; also in cases where perishable or other goods are ordered to be sent by freight or express to such great distances that cost of transportation will nearly or quite equal the value of the goods.

Discounts: We have this year made the prices in this catalogue as low as our high grade seeds can be sold, and we can give no discounts. In ordering seeds in bulk you may deduct ten cents per pound on vegetable seeds, such as are listed prepaid, if you are willing to have them sent by express or freight at your expense.

Premiums: Each year we put up thousands of packets of new or particularly desirable varieties of seeds for free distribution to our customers. We will send these out with the seeds ordered by you and will treat you liberally in this respect. We shall also try to please our plant customers by adding something to their order when shipping it.

Our Responsibility: As this book will probably go into the hands of some who are unacquainted with us, this question will naturally arise, and in answer to same we refer you, by permission, to the Commercial Savings Bank of this city, the postmaster or to any express company.

What We Guarantee: That all money sent to us for seed shall reach us if sent us by registered letter, postoffice or express money order, or bank draft, made payable to our order. That your order will be filled promptly and well. That goods ordered will reach you safely. Keep a copy of your order. Sometimes persons think they have ordered articles which they have omitted, and blame us for not sending them.

About Warranting: We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. When it is considered how many are the contingencies on which the success of any crop depends, such as sowing too deep or too shallow, too wet or dry soil, unfavorable weather, insects, etc., our customers will readily see that it would be sheer folly for anyone to warrant seeds to produce a perfect crop, and we want it plainly understood that while we exercise great care to have all seeds pure and reliable, and also true to name, we do not give any warranty express or implied as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the seeds on these terms and conditions, they are to be returned at once, and the money that has been paid for same will be refunded. No officer, agent or employee of this company is authorized to make any warranty whatsoever. However, we have so much confidence in our seeds that we hereby agree to refill any retail order for vegetable or flower seeds free of charge should they prove otherwise than as we represent them. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will see that we are right.

Market Gardeners and others who buy vegetable seeds in bulk to seed their list of seeds wanted to us and let us make special quotations.

Plant Orders: Orders for plants will be filled as early in the spring as we consider it safe to send them. If ordered for immediate shipment in severe weather they will be sent at purchaser's risk.

Small Orders: We take pains to fill orders promptly and correctly, no matter if only for but one packet of seeds, but we request that plant orders amount to at least 25 cents, and nursery stock to at least 50 cents, as otherwise they are filled at a loss to us.

IF YOU ONCE PURCHASE VEGETABLE SEEDS OF US YOU WILL CONTINUE A PATRON. THE QUALITY INVITES CONFIDENCE.

VEGETABLE SEEDS



Our stock of vegetable seeds we are sure cannot be excelled either in quality or selection by any firm in the country, as we watch our growing crops with great care, taking pains to isolate and keep pure and true to name. Every variety listed is desirable and has our recommendation. Our packets are, we believe, as well filled as any reliable seed dealer's in the United States, and, in fact, a comparison has shown that they contain more seed, on the average, than those of any other firm whose packets we have secured. We pay the postage on vegetable seeds at these prices, except on Beans, Peas and Corn in large quantities as stated in the variety list of these items.

We make it a rule to carefully test all seeds. We carry on extensive trials by which we are enabled to offer only those strains of seeds which come up to the standard of purity and excellence, and are of the highest vitality, and our **Choice Iowa Seeds** are sure to please. The vegetable seed department is under the personal supervision of the president of our company. He places the contracts, inspects the growing crops, superintends the farm operations in summer and during the busy months in spring he gives personal oversight to the order filling department. We expect to give you high quality in our **Choice Iowa Seeds** and to supply them at as low prices as possible.



BRUSSELS SPROUTS

BRUSSELS SPROUTS

(One ounce for about 3,000 plants.)

Of the cabbage family, producing numerous heads on the stem, of most delicious quality, with cabbage-like head at top. Use and cultivate like winter cabbage.

AMERICAN MAMMOTH.—Greatly superior variety of American growth, which forms heads about 3 weeks earlier than other sorts. Profitable for market gardeners. Pkt. 10c. oz. 35c, ¼ lb. \$1.00.

(One ounce will sow forty feet of drill.)

Asparagus is so easily grown and such a large quantity is produced on a small amount of ground that every garden should contain a bed. A bed ten feet square requiring 50 plants will give abundant supply for an ordinary family. Sow early in spring in rows a foot apart; keep clean by frequent weeding and hoeing. Circular on How to Make an Asparagus Bed, free.

BONVALLET'S GIANT.—A new and entirely distinct variety, that produces shoots which are white as long as they are fit for use. Robust and vigorous in habit, and throws up larger shoots and fully as many as Conover's Colossal, and requires no earthing up in order to furnish the white shoots so much sought after. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. \$1.00.

PALMETTO.—Stalks frequently measure 2 inches in diameter, and even when of extra length are perfectly tender when cooked. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

CONOVER'S COLOSSAL.—The standard variety. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

ASPARAGUS

(For asparagus roots, see page 36.)

ARTICHOKE

A great delicacy. A perennial producing the large flower heads, which are the part eaten, the second season and every year thereafter. Sow seed and when weather becomes settled transplant in rows 4 feet apart and 2 feet in the row.

LARGE GREEN GLOBE.—The best variety for general use; buds large; scales green; very thick, fleshy. Pkt. 10c; oz. 35c; ¼ lb. \$1.00.

BROCCOLI

(One ounce will produce about 3,000 plants.)

Growth and habit like cauliflower, except more hardy, and heads are not so compact; not desirable for warm or dry countries.

EARLY LARGE WHITE.—The most popular sort. Has medium sized, creamy white heads. Pkt. 10c; oz. 40c.



BONVALLET'S GIANT

IF YOU ONCE PURCHASE VEGETABLE SEEDS OF US YOU WILL CONTINUE A PATRON. THE QUALITY INVITES CONFIDENCE.

BEANS

DWARF BUSH VARIETIES.

(One pound will sow 50 ft. of drill.)

Dwarf or bush beans require no support and may be planted in drills or hills. They do best if not crowded. Beans are tender annuals and cannot be planted until danger of frost is past. Do not plant more than two inches deep. Never cultivate when the plants are wet.

WAX POD SORTS

BRITTLE WAX.—Claimed to be earlier than Golden Wax. Plant is a strong grower with large foliage and very productive. Pods are nearly straight, rather broad, solid and four to six inches long. Pods are stringless and the quality is excellent. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

IMPROVED GOLDEN WAX.—(Cut No. 1)—The most popular variety and this popularity is due largely to the fact that the strain we have is a great improvement on the old Golden Wax, having larger pods and being more prolific. This improved stock is one of the handsomest beans we have ever seen, the pods a rich golden yellow color and of perfect shape and rust proof. Best for family or market garden. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

CHALLENGE BLACK WAX.—This strain of Black Wax is in our opinion superior to that generally offered. Pods tender, round, fleshy and stringless. (See illustration.) Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

DAVIS WHITE WAX.—The best white seeded wax-pod variety. While other sorts may have superior qualities this bean does not show discoloration when cooked, and for that reason is preferred for canning. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

SURECROP STRINGLESS WAX.—(Cut No. 2.)—A valuable variety of dwarf wax beans. It is very productive, bearing large, handsome, golden yellow pods in great abundance and being hardy, may be planted early. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c. Not prepaid, any quantity at 30 cents per pound.

WARDWELL'S KIDNEY WAX.—A very popular variety of wax bean bearing long, flat pods of delicate, waxy, yellow color, stringless and brittle. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c. Not prepaid, any quantity at 30 cents per pound.

GREEN POD SORTS

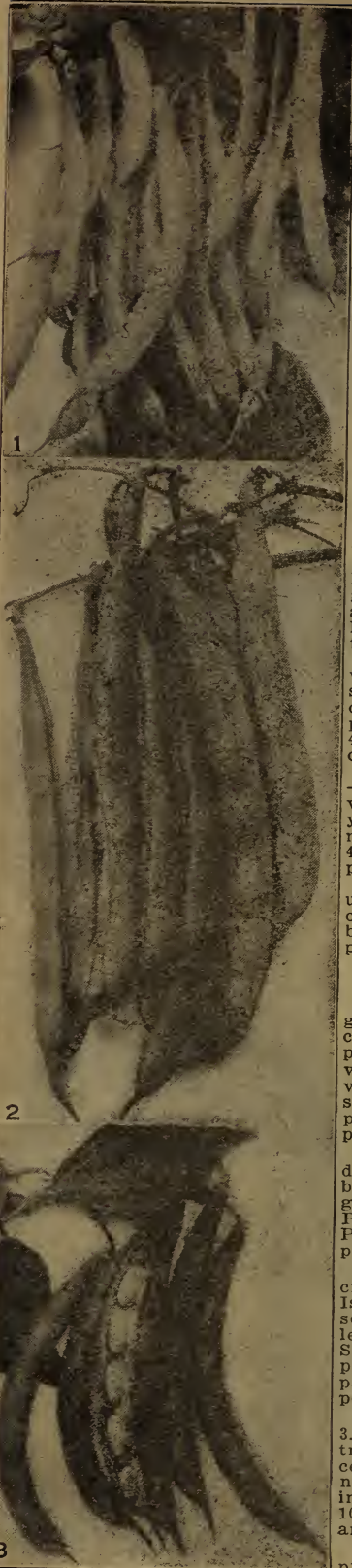
STRINGLESS GREEN POD.—A stringless green pod bush bean. Surpasses all others in crisp, tender flavor. Finely shaped, long green pods, absolutely stringless; ready to market two weeks earlier than the Valentines. Of immense value to market gardeners and amateurs who seek an early bean. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

BOUNTIFUL.—Vines strong, upright, abundant heavy foliage. The pods are thick and broad and entirely stringless, and produced in greater profusion than any other bush bean. Resembles Yellow Six Weeks in habit of growth. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

FULL MEASURE.—A new variety which is a cross of Refugee and Yosemite Mammoth Wax. Is very prolific and the pods are large, handsome, of dark green color, and entirely stringless. Matures as early and equal in quality to Stringless Green Pod, surpassing that variety in productiveness. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 35 cents per pound.

IMPROVED EARLY VALENTINE.—(Cut No. 3.)—Standard green pod variety. Produces the true, round curved pods abundantly. Unexcelled in quality and uniformity of ripening; nearly the whole crop can be taken at one picking, usually within 35 days after planting. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

IMPROVED NAVY, or Boston Pea.—An improvement over the old-time Navy Bean. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, any quantity at 20 cents per pound.



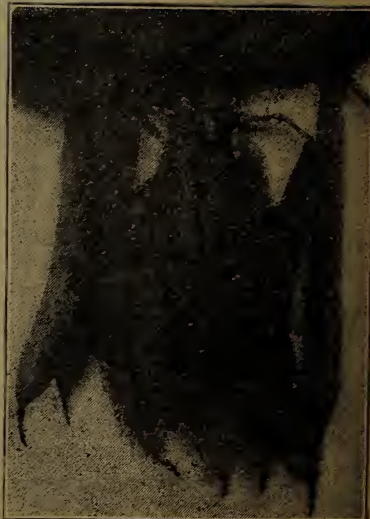
1—GOLDEN WAX. 2—SURECROP WAX.
3—EARLY VALENTINE.



BRITTLE WAX



CHALLENGE BLACK WAX



STRINGLESS GREEN POD

BEANS--CONTINUED

BURPEE'S BUSH LIMA.—A dwarf or bush form of the true large Lima which is of great value. They grow from 18 to 20 inches high, of stout, erect growth, yet branching and vigorous; an immense yielder. Does not always mature this far north, but makes excellent green shelled beans. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, any quantity at 40 cents per pound.

HENDERSON'S BUSH LIMA.—A true bush Lima, and sure to ripen its enormous crop. Beans grow to good size and are excellent either green, shelled or dry. Produces a continuous crop from the middle of July until frost. Enormously productive. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, any quantity at 35 cents per

prepaid,
pound.

POLE BEANS

This class of beans require support for best results. Frequently they are planted among the corn and good returns are secured in this way, but if you can furnish poles for support they will produce wonderfully. The extra care given will be fully repaid by increased yield.

OLD HOMESTEAD.—Is also known as Improved Kentucky Wonder. It has reached first place on the list solely on merit as it is enormously productive, pods hanging in great clusters from top to bottom of the pole. Entirely stringless, pods of silvery green color. Can be grown with corn to good advantage. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

LAZY WIFE.—Very popular pole bean. Derived its name from its immense productiveness. Pods produced in great abundance, measure from $4\frac{1}{2}$ to 6 inches in length. They retain their rich, tender and stringless qualities until nearly ripe. The white beans are large, round, plump, and make excellent winter shell beans. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

SPECKLED CUT SHORT.—The old-fashioned cornfield bean so popular because it seems better than most pole varieties. Of good quality and a good yielder. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

GOLDEN CLUSTER WAX.—Considered the best of all wax pole beans. It bears profusely its long, golden yellow pods in clusters of from 3 to 6, from the bottom to the top of the pole, and continues in bearing from the middle of July until the vines are cut by frost. Pods are 7 to 8 inches long. They are quite flat but fleshy, absolutely stringless, very brittle and delicious. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c. Not prepaid, any quantity at 40 cents per pound.

KING OF THE GARDEN LIMA.—An improvement on the large White Lima. Pods are of enormous size. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 60c, postpaid. Not prepaid, any quantity at 40 cents per pound.

YARD LONG.—A great curiosity but withal an excellent variety. Produces pods fully three feet long. Splendid for use in the green state as the pods are tender and of fine flavor. Pkt. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75, postpaid.

SCARLET RUNNER.—Valuable for table use or as an ornamental vine. Pkt. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.00, postpaid. Not prepaid, any quantity 75 cents per pound.



HENDERSON'S DWARF LIMA.



GOLDEN CLUSTER WAX



SPECKLED CUT SHORT



BURPEE'S BUSH LIMA



OLD HOMESTEAD



LAZY WIFE

IT ONLY TAKES A LITTLE EXTRA WORK FOR POLE BEANS. THEY YIELD MUCH HEAVIER THAN THE DWARF KINDS

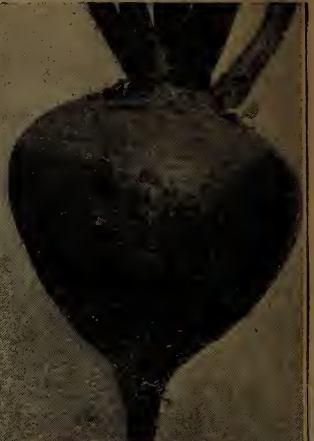
TABLE BEETS



DETROIT DARK RED



CRIMSON GLOBE



DEWING'S BLOOD TURNIP



CROSBY'S IMPROVED EGYPTIAN

(One ounce sows 50 feet of drill; 4 to 6 lbs. for one acre.)

For early, sow as soon as ground can be worked, and from the middle of May for general crop, in drills 15 inches apart and 1½ inches deep. As the plants grow, thin to 6 inches in drills. Young plants make excellent greens. The soil should be a deep, rich loam. Hoe often, taking care not to bruise the roots.

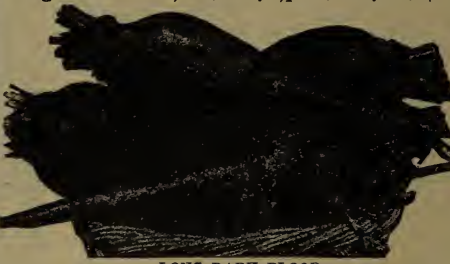
CROSBY'S IMPROVED EGYPTIAN.—We believe this to be the earliest variety. Great improvement on the old Egyptian, being thicker, handsomer and more regular in shape, smooth with small tops and small tap root. Popular with our market gardeners for this purpose. Being a rapid grower, it may be sown outside as late as the first of August. Pkt. 5c, oz. 15c, ¼ lb. 50c, lb. \$1.50.



FIREBALL

DETROIT DARK RED.—(Cut No. 1.)—One of the best varieties grown for main crop. Its roots are round, very smooth, of good marketable size, and for table use no variety can excel it in fine quality. The skin is deep blood red; flesh is also dark red and is sweet and tender. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

DEWING'S IMPROVED BLOOD TURNIP.—(Cut No. 3.)—Improvement of Early Blood Turnip. Globe-shape, deep blood red color, fine flavor, a good seller and generally considered the most desirable variety for main crop and winter use. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 80c.



LONG DARK BLOOD

EARLY CRIMSON GLOBE.—(Cut No. 2.)—Very early, of spherical form. Skin very very smooth and it is as handsome a beet as you can imagine. It is a rich, deep red color, shading to purple. Its flavor cannot be surpassed. When cooked it is of even, dark color throughout, and is attractive on the table. Uniform shape and size. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

MARKET GARDENERS.—Undoubtedly one of the best ever introduced. As will be noted by engraving, it is very symmetrical, with small tap root. Unusually small tops. On some soils the Egyptian can be marketed a few days before the Market Gardeners, still within a week it will be found larger than the Egyptian, while it continues to grow, attaining a large size, and making a good beet for the winter. One sowing will produce early beets for the market and main crop for winter use, color is deep blood red, fine grained. See Thrift Collection page 34. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

GIANT LUCULLUS CHARD.—Growing in popularity. Leaves are beautifully curved, and of a soft clean shade of green. The thick, broad stalks are as large as rhubarb. Prepared and served the same as asparagus, or leaves and stalks can be used for "greens," and are considered by many superior to spinach for this purpose. Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. \$1.00.

SWISS CHARD.—The ordinary form of chard beet with green leaves. Sometimes known as "Spinach Beet." Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 80c.

FIREBALL.—Has no superior in quality. It is a first early, globe-shape, deep red color, flesh solid and very sweet. Tops are few and small and this is a great saving in bunching for market. Very satisfactory either as a market or home garden variety, especially for early use. Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. \$1.00.

LONG DARK BLOOD.—A well known sort. Grows a long, tapering root as shown in illustration. Will produce much greater crops than the flat shaped sorts. Quality is excellent and it will keep nicely all winter in a cool place. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 80c.



MARKET GARDENER



GIANT LUCULLUS CHARD

MANGEL & SUGAR BEETS FOR STOCK.

EXTENSIVELY grown in all parts of the country for feeding stock. Sow in April or May in drills three feet apart, and thin to ten inches in the row. If your soil is deep and mellow, try the long varieties; if shallow the round kinds will do better. No crop pays the farmer and stockraiser better than mangels; 1,000 bushels to the acre is an ordinary yield, while, with good culture, 2,339 bushels have been grown to this amount of ground. It costs, counting labor, use of ground and everything, less than \$50 to raise an acre of mangels and gather and store them. This, for an ordinary yield, is a cost of only five cents per bushel. They make the cheapest of foods for all kinds of live stock—horses, cattle, sheep, pigs, chickens, etc. Easily grown, and they help to keep stock in good condition and free from disease. Dairymen claim that a bushel of mangels and a bushel of corn are worth more than two bushels of corn. Full directions for culture and storing mangels, will be sent on application. Use five pounds to an acre. Prices quoted by express are not prepaid.

PRICES
are lower.
Considering
the yield the
cost of seed
is very low.

COLLECTION - OF - MANGELS

One ounce each
of the eight var-
ieties of Man-
gels and Sugar
Beets for 50c, $\frac{1}{4}$
lb. of each \$1.75
postpaid; one lb.
of each not pre-
paid, only \$4.25.

Giant Half Sugar Mangel is
cheap. See Description.

MAMMOTH GOLDEN GIANT.—The largest of yellow flesh mangels. Grows more than half above ground and of a more grayish or rather russet yellow. Remarkably even in shape; of vigorous growth; has a fine neck and very smooth skin; flesh firm and sweet. It is a most excellent keeper; yields 40 to 60 tons per acre. Oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 60c. Not prepaid, 5 lbs. for \$2.50.

CHAMPION YELLOW GLOBE.—The finest type yellow globe in cultivation. Roots immense size, fine shape, small tap root, neat top. Flesh being very firm and fine grained renders it an excellent keeping variety. We recommend this variety as the best adapted to shallow soils. Our seed of this sort is particularly choice. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 60c. Not prepaid, 5 lbs. or more at 50c per lb.

GIANT SLUDSTROP.—This is a variety of exceptionally even growth, showing careful production of stock seeds for many years. Color is reddish yellow, excellent in shape, which resembles Golden Tankard, and is superior to that popular sort in every way. Contains more sugar, grows larger, more above ground and is therefore easier to harvest. It is the best of all mangels for feeding purposes. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 60c. Not prepaid 5 lbs. or more at 50c per lb.

DIGNITY LONG RED.—Improvement on the Mammoth Long Red by careful selection for a number of years. Unexcelled for yielding and feeding qualities. Grows to a very large size, weighing from 20 to 50 lbs., and will yield 50 tons per acre. Very uniform, smooth and of good shape. Should be grown on deep, loose soil. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 55c. Not prepaid, 5 lbs. at 45c per lb.

GIANT HALF SUGAR MANGEL.—A hybrid or cross between the Mammoth Long Red and Sugar Beet, and for our own feeding we have found it superior to either. Being sweeter, both cattle and hogs relish them greatly. As heavy a yielder as the mangels and equally as smooth. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 60c. Not prepaid, 5 lbs. or more at 50c per lb.

GOLDEN TANKARD.—It is stated by English Dairy Farmers they are able to obtain a higher price for milk when feeding cows on Golden Tankard. Sheep thrive on it. Other mangels cut white, circled with yellow, but this is of a rich, deep yellow throughout. Early, hardy, a heavy cropper, and on account of shape the roots can grow close in rows. Oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c. Not prepaid, 5 lbs. or more at 75c per lb.

KLEIN-WANZLEBEN SUGAR BEET.—Cultivated for beet sugar factories, yields fifteen to twenty per cent of sugar. Roots of shape shown in our illustration, straight, tapering evenly and somewhat screw shape. Our seed is from beets which were tested as to per cent of sugar before setting out. The sugar makes it of great value for feeding. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 90c. Not prepaid, 5 lbs. or more at 75c per lb.

LANES IMPERIAL SUGAR BEET.—Largest sugar beet and the one usually grown for stock feeding. Yields heavy tonnage of beets with high percentage of sugar. Per oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 90c. Not prepaid, 5 lbs. or more at 75c per lb.

KLEIN WANZLEBEN

SEND FOR CIRCULAR TELLING HOW TO GROW AND STORE MANGELS AND OTHER ROOTS. MAILED FREE ON REQUEST.

CABBAGE

(One ounce will produce about 3,000 plants. Set 8,000 to 10,000 plants per acre, of early sorts, and 6,000 of large, late kinds.)

No vegetable is of greater importance than cabbage, and compared with the cost of seed, there is more money in growing cabbage than other crop. It does not pay, therefore, to take any risk in buying seed. We have had our cabbage seed grown by the same growers for about twenty years past, and it has proven of uniformly excellent quality, so that we pride ourselves on having the purest and highest grade of cabbage seed that is offered, or at least it is surpassed by none. The cabbage requires a deep, rich soil and thorough working to insure good, solid, full-sized heads. Sow early sorts in hotbeds about six weeks before time to set out the plants in the field or garden. Transplant to rows three feet apart. Our packets contain about 800 seeds. Slug Shot and tobacco dust are used to kill insects and worms.

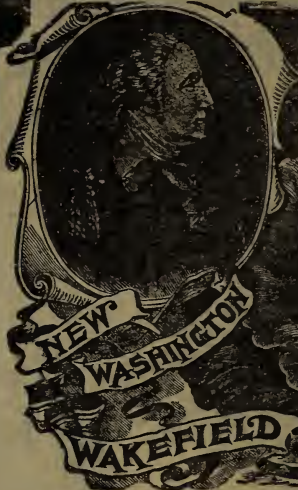


EXTRA EARLY EXPRESS

EARLY VARIETIES

EXTRA EARLY EXPRESS.—The earliest variety in existence and produces rather small heads long before the Jersey Wakefield or other varieties have begun to head up. Heads solid, have few outside leaves, and can therefore be planted very close and yield a large crop. It is a most important variety for gardeners. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

BURPEE'S ALL-HEAD EARLY.—This is the earliest of the flat-headed cabbages, of larger size than early varieties generally, of perfect shape and it makes exceptionally solid heads. It was originated by the late C. L. Allen, of Long Island, N. Y., but named by Mr. Burpee, who purchased the first crop and gave it his name. Our seed is grown from the original stock so that we have as good stock as can be purchased. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.



EARLY JERSEY WAKEFIELD.—Considered by many gardeners the very best first early variety. Of large size for so early a kind and is certainly deserving of its great popularity. Heads hard and solid, and have few outside leaves. Our seed is highest quality, American grown. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

NEW WASHINGTON WAKEFIELD.—A grand variety, a trifle later than Jersey Wakefield; produces much larger heads, of perfect pyramidal shape, very solid, with few outside leaves. One cabbage grower, who is enthusiastic in its praise, says, "It is first in head, first in market, and first in the hearts of gardeners." It grows remarkably uniform, heads are of even size and shape. Unequaled for market or family garden. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.



COPENHAGEN MARKET



ALL HEAD EARLY

COPENHAGEN MARKET.—A splendid new early flat head cabbage. Matures as early as Jersey Wakefield, has few leaves and is remarkably hard and solid. Grows compact, takes but little room and farms before offering it to our trade. We recommend it without reservation. A carefully bred variety from Denmark. Both type and quality are thoroughly fixed. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.15, lb. \$3.50.

HENDERSON'S SUCCESSION.—An excellent variety of large size and with flat head maturing in midsummer. It can be brought to perfection in the hottest weather or used as an autumn or winter crop. Heads 10 or 12 inches in diameter, frequently larger, average about 12 lbs. Many varieties are offered as a second early cabbage but we believe the Succession will prove first in general excellence. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.75.

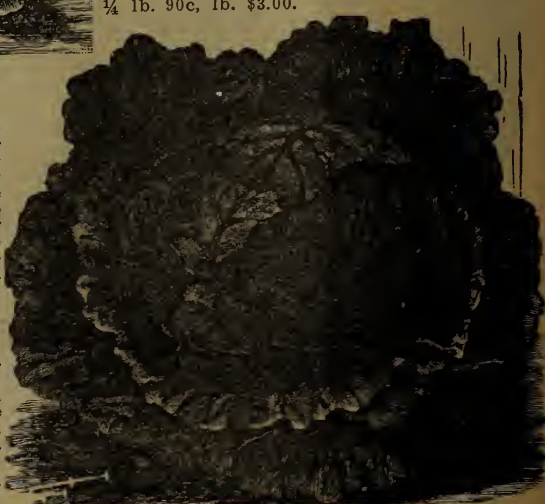
FROST PROOF CABBAGE PLANTS

Grown from fall planted seed, off the coast of South Carolina. Produced in open fields, in winter so that they grow slowly and become hardened to cold and slight frost. Can be set out in spring much earlier than hot bed or greenhouse plants and you can really have cabbage two weeks ahead of ordinary plants by the use of the frost proof stocks. These will be mailed direct from the growers to you. Will reach you at proper time for planting and cost is very low.

Early Jersey Wakefield, per 100, 50 cents; 500 for \$2.00, postpaid.

Washington Wakefield, per 100, 50 cents; 500 for \$2.00, postpaid.

Henderson's Succession, per 100, 50 cents; 500 for \$2.00, postpaid.



HENDERSON'S SUCCESSION

YOU ARE CERTAIN TO HAVE GOOD CROPS OF FINE CABBAGE IF YOU PLANT OUR SEED. WE SELL NONE BUT THE BEST.



SHORT STEM DRUMHEAD

LATE VARIETIES

IOWA SEED CO.'S SHORT-STEM DRUM-HEAD.—Our improved and selected strain which has greatly pleased thousands of our customers in the past. For sureness in heading regularity of growth, and even, large, solid heads, it far surpasses any other strain of late cabbage, ripening evenly, with very short stem or stalk, and large, thick heads of silky fine quality and best keeping properties. Almost all head and always sure to head. It grows the largest head of any cabbage in our list and is the best for winter use. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$2.70.

PREMIUM FLAT DUTCH.—This old and well known variety is still the standard winter kind. Heads are large, solid and it is a first-class keeper. Our strain of this cabbage is given extra care in selection to maintain its even type and sure heading quality. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$2.70.

ALL SEASONS.—(Vandergaw)—A medium early variety, but quite hardy and may be planted in mid-summer for late cabbage, hence its name. If used as a summer cabbage handle like any early sort and matures with succession. It grows to large size quickly, reaching 15 lbs. in weight. As fall cabbage, however, it gives best results. Plants set in fields July 15th mature very large, solid heads in September, and may be used any time thereafter. Will keep for winter use if left standing in the fields until after frost. Heads are compact, solid and of fine texture, an excellent sort for kraut. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50, lb. \$4.00.

SUREHEAD.—This popular cabbage is rightly named Surehead and never fails to make a remarkably fine, solid, large head with few outer leaves. Strong, vigorous grower; ripens late. First-class main

CABBAGE

CHINESE CABBAGE

PE TSAI.—Produces a long top or head 12 to 15 in. long, and 4 to 5 in. in diameter, which blanches to a beautiful clear white. Sow in hot beds for early or treat as late cabbage for winter use. This was originally imported from China. It resembles in growth Romaine or Cos Lettuce. The leaves are large, have broad ribs and are exceedingly tender. Has only become known in the last few years, but its excellence has created for it a large demand. The immense heads frequently weigh as much as six pounds. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.75.



CHINESE CABBAGE

IMPROVED DANISH BALLHEAD, or Hollander.

—This variety has been selected and perfected for more than fifty years by the Danish gardeners. They grow it almost exclusively for winter cabbage. Heads round, good sized, solid and very fine grained. Has but few outer leaves. A good keeper, tender and crisp, with little waste heart. We import our seed of this sort from Denmark. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$2.70.



DANISH BALL HEAD



FLAT DUTCH

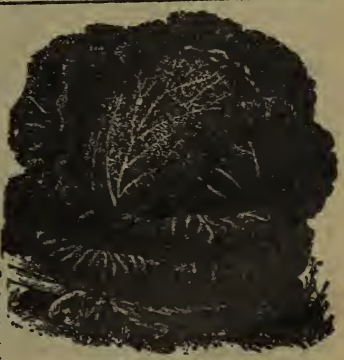
crop sort. Is of the Flat Dutch type but heads are somewhat rounded in form. Equal to that well known sort in keeping qualities. Specimens have been grown to weigh over 30 lbs. but under ordinary conditions weigh 12 to 18 lbs. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

PERFECTION DRUMHEAD SAVOY.—Has curled and crumpled leaves and is of finer flavor and quality than ordinary cabbage. Planted and grown as ordinary late or autumn cabbage. Our strain is sure header and is the best variety of this type. Heads are large and solid and will make a good crop. For salads and kraut the Savoy will give a richer flavor than common kinds. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

MAMMOTH RED ROCK.—Is the largest of the red cabbages, solid, heavy, and a good keeper. Color is rich dark red so desirable for pickling uses. Heads are sold and weigh 10 to 12 lbs. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.



SUREHEAD



PERFECTION DRUMHEAD SAVOY



One ounce for 100 feet
of drill.

CARROTS

Three or four pounds
for one acre.

A nutritious succulent food in the winter for cattle, horses, sheep and pigs. For early, sow in the spring as soon as ground can be worked, in drills fourteen inches apart, covering one-half inch; thin plants to three or four inches apart in row. For field culture rows should be of sufficient distance to admit use of a horse cultivator; sow seed from middle of April to first of June. A light, sandy loam, deeply tilled, is best.

EARLY SCARLET HORN.—Favorite extra early variety. Very early. Orange-scarlet, fine grained, and agreeable flavor. Top small, short, stump-shaped root; grows well in shallow soil. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.25.

OXHEART, or Guerande.—Most valuable variety in existence. Intermediate between Half-Long and Horn sorts; diameter 3 to 4 inches at neck; beautiful shape; rich orange color. Easily pulled, early as any, best quality all season. Has yielded 1,200 bushels per acre. Cut tops with scythe; pull with potato hooks. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

DANVERS.—Is in form about midway between the Long Orange and Shorthorn class, growing generally with a stump root. Rich, dark orange color, large size, smooth and flesh of very close texture with little core. A first-class carrot for all soils. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

CHANTENAY.—Most desirable early variety for bunching and, although a trifle later than the first earlies, will yield so much handsomer roots and larger crop that everyone is

pleased with it. Splendid variety for market or feeding purposes. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.25.

IMPROVED LONG ORANGE.—Desirable for garden or field. Grows to large size, averaging 12 inches in length and 3 inches in diameter at the top. This is the standard long variety, preferred to Victoria by some because of its deeper orange color. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.00.

VICTORIA.—Largest carrot grown, heaviest cropping and most nutritious; roots remarkably fine, light orange, symmetrical, excellent quality, of high feeding properties; good keeper; grows half as much weight again per acre as other sorts; grows well out of ground; easily harvested. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 80c.

LARGE WHITE VOSGES, or Improved Short White.—A stock variety which is enormously productive and easy to harvest. Color light green above ground, white below; flesh rich, white, solid and crisp; heavy yielding. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. 80c.

CELERY

One ounce will produce
about 6,000 plants.

For first crop sow early in hotbeds, or in boxes in the house, in rich, moist soil, covering seed very lightly. For main crop sow in open ground in April. If the weather is hot and dry protect with light covering of hay or straw. Stir soil when plants are well up; thin out and transplant. For main crop set out between June 15th and July 15th, in rows 3 feet apart and 6 inches apart in the row. Firm the earth well when setting and they will root better. Keep clear of weeds.

WINTER QUEEN.—Finest dwarf celery and a popular sort. Stalks are large and heavy, of even growth and good length. Quality is excellent and it blanches readily with but little trouble. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.

GOLDEN SELF-BLANCHING.—By far the most popular sort; of medium earliness and dwarf, compact habit, with thick, solid, heavily ribbed stalks which blanch easily to a clear, waxen yellow. Grown in rich, moist soil, the stalks are numerous and large, with a solid heart of beautiful yellow. French Grown Seed, pkt. 15c, oz. \$1.00, $\frac{1}{4}$ lb. \$2.50, lb. \$3.00.

American Grown Seed, pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$1.75, lb. \$4.00.

WHITE PLUME.—Stalks, portions of the inner leaves and heart naturally white, and become fit for use by simply tying up closely with twine. More used than any. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

GIANT PASCAL.—A late variety of superior keeping qualities. Very large, solid and crisp; a rich, nutty flavor. Blanching easily. The heart is golden yellow and very attractive. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.

GIANT PRAGUE CELERIAC.—Instead of producing long leaf stalks like ordinary celery it has a turnip-like root with true celery flavor. Used in soups, stews and for all culinary purposes in place of ordinary celery. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.

NEW ROSE.—A self blanching type which attains a soft rosy pink shade when ready for use. Very attractive and of excellent quality. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.

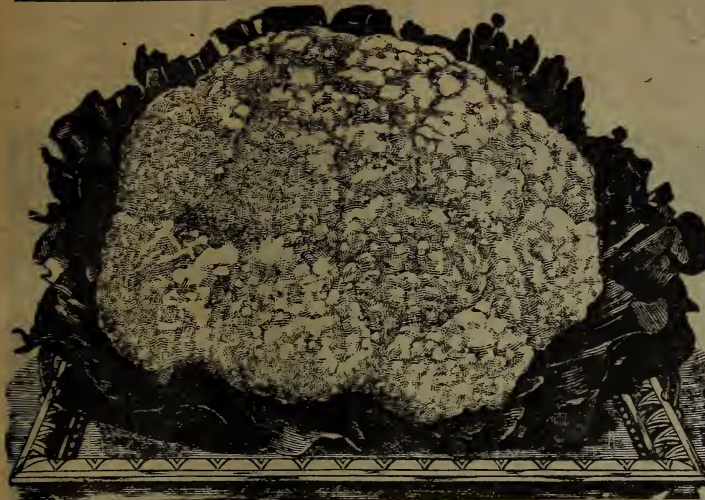


WINTER QUEEN



GIANT PRAGUE CELERIAC

THERE IS NOT ENOUGH ATTENTION PAID TO ROOT CROPS BY LIVE STOCK RAISERS. OF GREAT VALUE IN FEEDING.



HENDERSON'S SNOWBALL CAULIFLOWER

CHERVIL

(An ounce will sow 100 feet of drill.) Leaves used in soups and salads. Have a pleasant aromatic taste greatly liked. Cultivate like parsley. Pkt. 10c, oz. 25c.



CHERVIL

COLLARDS

(One oz. for about 3,000 plants.) Collards are very largely used as "greens" in some parts of the country, especially in the South. They are a form of loose-headed cabbage.

GEORGIA.—The most satisfactory variety for general use. Pkt. 10c, oz. 30c, ¼ lb. 60c.



UPLAND CRESS

CRESS

EARLY CURLED.—A well known salad. Sow at intervals all season. Pkt. 5c, oz. 15c, ¼ lb. 40c.

TRUE WATER.—Sow seeds along the running water. Pkt. 10c, oz. \$1.00.

UPLAND CRESS.—A perennial sort; hardy; produces well; same flavor as Water Cress. Grown on high, dry land; does not seed soon. Pkt. 10c, oz. \$1.00.

COLLECTION OF ODD VEGETABLES

Persons exhibiting at fairs should grow some to help make attractive showing. Have something different.

BRUSSELS SPROUTS.—See page 1. Pkt. 10c.

CHUFAS, or Earth Almonds.—(See right hand column, this page.) Pkt. 10c.

CHINESE CABBAGE.—See page 7. Pkt. 10c.



COTTON

FRENCH SORREL.—Grown for and used as "greens." Pkt. 10c.

GARDEN HUCKLEBERRY.—(See description and illustration on page 13.) Pkt. 10c.

GOURDS, Ornamental Mixed.—Pkt. 5c.

GROUND CHERRY.—(See description on page 13.) Pkt. 10c.

KOHL RABI.—(Illustrated on page 13.) Per pkt. 10c.

MARTYNIA.—Also called "Devil's Claw" and "Unicorn Plant." Ornamental plant, bearing beautiful flowers which are succeeded by large seed pods which when young are fine for pickling. Pkt. 10c, oz. 30c.

OKRA, or Gumbo Plant.—(Description on page 22.) Per pkt. 10c.

ORNAMENTAL MICE.—Vegetable curiosity; bears small, neat, oval fruits, completely covered with long, light green spines or hairs. Pkt. 10c.

POMEGRANATE.—Ornamental little fruit, commonly grown in gardens a century ago, but now rarely seen. It grows on a pretty vine; fruit is round, yellow, and irregularly striped with orange, red or mahogany; fragrant; a specimen will perfume a room many days. Pkt. 10c, oz. 25c.

SWISS CHARD.—Illustrated on page 4.) For beet greens. Pkt. 10c.

VINE PEACH.—(For description see page 13.) Pkt. 10c, oz. 25c.

17 PACKETS, POSTPAID, \$1.25.

CAULIFLOWER

(One ounce will produce about 3,000 plants.)

One of the most delicious of vegetables. Requires similar treatment to cabbage. Does not head well during the hottest weather in summer. Sow the seed early for an early crop and again in June or July for late heads. Our Cauliflower seed is grown in Denmark and is the best produced anywhere.

HENDERSON'S EARLY SNOWBALL.—Considered the earliest and more certain to make a head than any other sort. Its dwarf habit and short outer leaves allow it to be planted as close as 18 to 20 inches apart each way, thus making it especially valuable to market gardeners. Our stock is extra choice, and cannot be excelled. We believe it to be the best in the world. Pkt. 20c, ¼ oz. 75c, oz. \$2.50.

DANISH GIANT, or Dry Weather Cauliflower.—A strong competitor for first place. Heads extra large, pure white and very solid. Has large leaves which protect the head. About 10 days later than Snowball, but has proven more desirable for growing in open ground and does well in dry seasons when other varieties show failure, keeping plump and fresh during the hottest, dryest weather. Pkt. 20c, ¼ oz. 75c, oz. \$2.50.

EXTRA EARLY DWARF ERFURT.—Is valuable for forcing. A very popular variety. First quality. Pkt. 20c, ¼ oz. 75c, oz. \$2.50.

CHUFAS

A nice little ground nut greatly liked by children. Its flavor resembles the cocoanut. Very prolific, a single one yielding 200 to 400 nuts growing just under the ground and easily reached by pigs and poultry if they have access. Grow best in light, sandy soil, well fertilized. Plant in April, 10 inches apart, in 2½-ft. rows. Cover lightly. Soak seed before planting if very dry. Pkt. 10c, oz. 20c, ¼ lb. 35c.



CHUFAS

CHICORY

LARGE ROOTED.—Used as a substitute for coffee. Cultivated the same as carrots. Take up roots in the fall, cut in small pieces and let dry. When wanted for use it is roasted and ground like coffee. Pkt. 10c, oz. 40c.



CORN SALAD

CORN SALAD

Nice winter salad. Sow in September in drills. Cover in fall with straw or leaves. Pkt. 10c, oz. 25c, ¼ lb. 75c.

One pound will plant five hundred hills of four grains. Packets contain about 2 ozs.

SWEET CORN

Seven pounds for an acre planted in hills, Fifteen pounds per acre in drills.

Plant as soon as the ground becomes warm in the spring, in hills about three feet apart; give thorough cultivation. Our sweet corn is carefully grown and selected, only the choicest, most perfect ears being selected for seed. It is far superior to ordinary stock. We pay postage by the packet or pound. Quantities of three pounds or more go by express or freight at customer's cost for transportation or will be sent by parcel post if you send postage. See page 13.



IMPROVED GOLDEN BANTAM.—(See cut No. 1.)—This handsome new variety is one of the most delicious of all and it is generally believed to be the richest in flavor. Is extremely early, of hardy, vigorous growth, so that it can be planted quite early. The stalks grow only about four feet high but they bear two or three good ears six to eight inches long, of handsome yellow color. In flavor it is quite distinct from the white sorts and some have called it as sweet as honey. Give it a trial. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid any quantity at 25 cents per pound.

EARLY SUNRISE.—(No. 5.)—Is a splendid new variety which we introduced. It is undoubtedly the best extra early corn for either private gardens or the public market. The ears are long, well filled out at the end, and husk covering so completely and being so tight as to prevent working of worms, which are so bad in Cory. Grains fairly deep and set in straight rows on a small white cob; very uniform and handsome. Market gardeners will find Early Sunrise a profitable and satisfactory sort. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.



EARLY SUNRISE

PEEP O' DAY.—(See cut No. 2.)—Of Minnesota origin, five to seven days earlier than other kinds. The ear is five inches long, of perfect form, and well filled. The corn is tender and sweet. On our place it matured with Early Sunrise and is similar to it in many respects. You will make no mistake in planting some of it for first early. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

EXTRA EARLY CORY.—(White Cob.)—(No. 3.)—This was for years the most popular variety with market gardeners for first early until the introduction of Early Sunrise. Dwarf growth and yields well. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20c per pound.

EARLY MINNESOTA.—(No. 7.)—A standard variety. Has held its position in the list for a long period of years as a dependable sort. Ears of good size and well flavored. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, any quantity at 20 cents per pound.

CHAMPION EARLY.—(No. 6.)—Earliest large corn ever introduced, maturing only a few days later than the small eared sorts and producing large 12-rowed ears 8 to 10 inches long. Pure white kernels with white cob, very sweet and tender, usually producing two ears to the stalk. Unsurpassed for market gardening or family garden owing to its large size and fine appearance. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 20 cents per pound.

EVERGREEN SWEET FODDER.—Preferred for the production of feed for live stock. See page 48. By express, not prepaid, 3 lbs. 50c, 10 lbs. \$1.25. See red ink price list.

I have planted your seeds for several years. My neighbors often compliment my garden. Will always speak a good word for your seeds.—Mrs. Harry D. Aldridge, Stanford, Ky.

I was very much pleased with your seeds, both last year and the year before, and expect to succeed with them this summer.—Mrs. J. J. Kindle, Metuchen, New Jersey.

I have been ordering garden seed from you for several years and have had no occasion to complain with results obtained in any case.—H. H. Howard, Canton, Missouri.

I have bought my garden and flower seeds from you for several years. They have always given satisfaction every packet is true to name, and are large and well filled.—Mrs. T. W. Humphries, Nanafalia, Alabama.



GOLDEN BANTAM

WE OFFER OUR CUSTOMERS THE CHOICEST STOCKS OF SWEET CORN AT VERY LOW PRICES, QUALITY CONSIDERED.

SWEET CORN--CONTINUED

PHARAOH'S DREAM.—(No. 11.)—"And Pharaoh slept and dreamed. . . and behold seven ears of corn came up, upon one stalk, rank and good."—Genesis 41:5. The most productive variety of sweet corn ever sent out. So frequently produces seven ears to the stalk it has been aptly named "Pharaoh's Dream." Ears are large and would sell for Stowell's Evergreen. Produces better when only one or two grains are planted in a hill. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

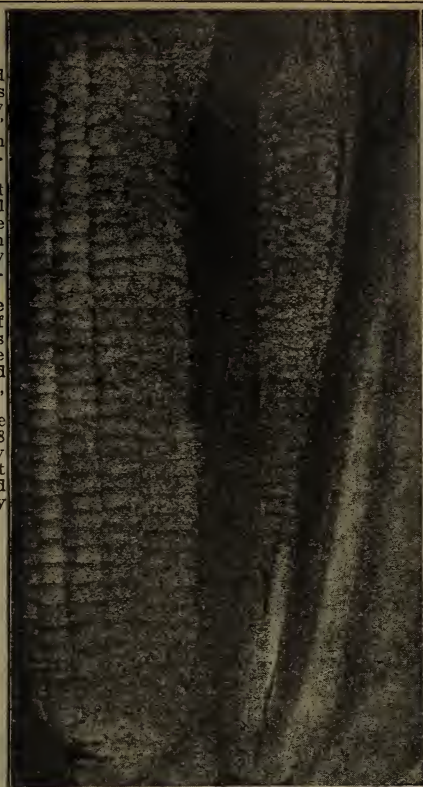
IMPROVED STOWELL'S EVERGREEN.—(No. 12.)—The most prominent main crop sort and more largely planted than any other, being a general favorite with canners and market gardeners for late use. The ears are large size. The grains are deep, exceptionally tender and remain a long time in an edible condition. The dried kernels are shriveled so much that they readily show its unusual sweetness. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 30c, postpaid. Not prepaid, any quantity at 20 cents per pound.

COUNTRY GENTLEMAN.—(No. 9.)—An improvement on the old favorite Shoe Peg Sweet Corn. Our illustration of a single ear shows its habit of growth; produces 3 to 5 ears to a stalk. In this, coupled with the luscious quality, the general superiority of this new variety will be quickly seen. The cob is small, giving great depth to the kernels, which are pearly white and we cannot say too often—surpassingly sweet and tender. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 35c, postpaid. Not prepaid, any quantity at 25 cents per pound.

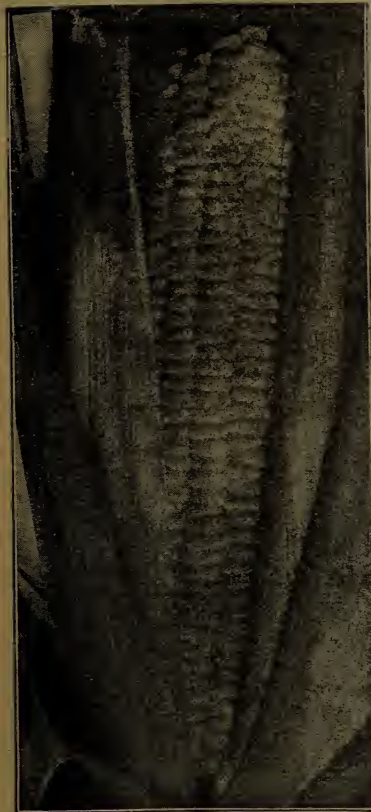
GOLDEN EVERGREEN.—(Cut No. 13.)—Combines the size of ear of the Evergreen type with the color of the Golden Bantam. The ears are 6 to 8 inches long, well filled with very deep kernels of rich yellow color. In quality it is fully equal to the famous Golden Bantam. Some growers maintain that it is superior in flavor and sweetness to any other. Will be appreciated because of sweetness. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25 cents per pound.



COUNTRY GENTLEMAN



STOWELL'S EVERGREEN



PHARAOH'S DREAM



AUSTRALIAN HULLESS

POP CORN FOR SEED

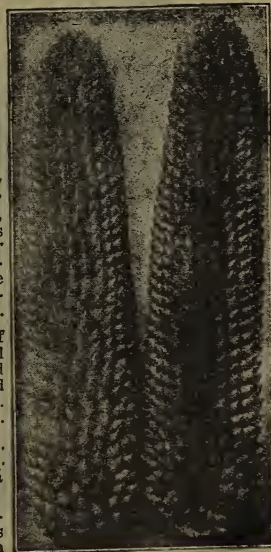
It pays to raise pop corn as a general crop. The demand usually exceeds the supply. Some farmers claim it is as easily grown as field corn and they receive three or four times the amount per acre for the crop. Let the children try a patch.

AUSTRALIAN HULLESS.—Dwarf-growing and heavy yielder of attractive ears, peculiar in form, being nearly as thick as long. Kernels are similar to White Rice, only longer and slimmer and pearly white in color. Its crowning merit lies in its popping quality, fine flavor and absence of hull or shell when popped. Grown extensively for market and commands the highest price and most ready sale. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 50c, postpaid. Not prepaid, any quantity at 30 cents per pound.

MONARCH WHITE RICE.—This is our own strain of large rice pop corn and has been bred up to wonderful productiveness. Bears three to six ears per stalk and yields 1,800 to 2,500 lbs. per acre. Grain is large and pops to great size. Pkt. 5c, $\frac{1}{4}$ lb. 15c, lb. 40c, 3 lbs. \$1.10. Not prepaid, any quantity at 25 cents per pound.

QUEEN'S GOLDEN.—In size like Monarch White Rice, but grains are smooth, flinty and bright orange yellow. Has a golden appearance when popped. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid.

MINIATURE.—The smallest pop corn grown. Splendid quality; pops very tender. Listed by some dealers as hulless, but it differs as its shape is more like Monarch White Rice. Pkt. 10c, $\frac{1}{4}$ lb. 20c, lb. 50c.



MONARCH WHITE RICE



EARLY EXPRESS

EARLY EXPRESS.—It is truly a desirable cucumber. In size it equals the ordinary types, while it is by all odds the earliest variety in existence. The quality is of the best. It is free from any rank, strong flavor at any time. Equally good for pickling or slicing and we recommend it. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

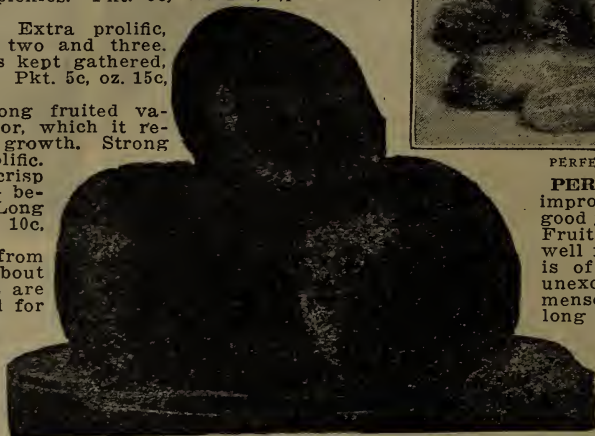
IOWA STANDARD.—The handsomest of long green varieties. Color is beautiful dark green, and they do not turn yellow with age. Fruits measure 12 to 15 inches in length and are smooth and symmetrical. Flesh is firm, crisp, white, and the flavor is most excellent. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

IMPROVED CHICAGO PICKLE.—Medium in size, dark green in color when young. A variety originated by a pickle grower near Chicago; is considered the best variety there; very prolific; matures early, produces immense number of fine shaped pickles. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$1.50.

EARLY CLUSTER.—Slim form. Extra prolific, frequently setting in clusters of two and three. Fine for small pickles. If fruit is kept gathered, the vines will continue in bearing. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

WHITE WONDER.—A large, long fruited variety of beautiful ivory white color, which it retains during the whole period of growth. Strong and vigorous growth and very prolific. Quality is really superior, being crisp and tender, with small seeds. We believe it will be more popular than Long Green when better known. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 60c, lb. \$1.60.

LEMON.—As will be noticed from our illustration, it is round and about the size of a baseball. The fruits are produced in great profusion. Used for slicing or sweet pickling as any ordinary variety of cucumber, but have a flavor peculiarly their own; superior to any, being crisp and tender and having none of the bitter taste found in some varieties. Of best quality. Desirable for use as mangoes. Pkt. 10c, oz. 25c.



LEMON CUCUMBER.

JAPANESE CLIMBING.—The vines are of healthy, vigorous growth, with rich, dark green foliage, and throw out strong, grasping tendrils, enabling it to climb trellis, wire netting, brush or any other suitable support. It is of large size, cylindrical, flesh pure white, skin dark green, turning to brown and netted when ripe. Fine for slicing. Pkt. 10c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

IMPROVED LONG GREEN.—A standard sort. Vine vigorous and productive, forming fruit for the table nearly as early as shorter sorts. Produces very fine, firm fruit about 12 inches long. See illustration. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

ROLLISON'S TELEGRAPH.—An English forcing variety bearing fruits 14 to 16 inches long. Dark green, smooth, and of perfect shape. Much used and greatly liked by market gardeners for hotbed and greenhouse growing in winter and early spring. Pkt. 15c.

WEST INDIA GHERKIN, or Burr.—This is a peculiar shaped, very small variety of cucumber which makes a handsome pickle of first-class quality. When ready it is about as large as an English walnut, partly covered with spines, from which it takes the name "Burr" cucumber. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 65c.

CUCUMBER

(One ounce plants 50 hills, two pounds one acre.)

Cucumbers succeed best in a rich, loamy soil. For first early, sow in hotbeds, in berry boxes or in small flower pots, six weeks before they can be set out in open ground. When danger of frost is over transplant in hills four feet apart each way. For general crop plant in open ground in May, about twelve seeds in a hill. When danger of bugs is past thin to four strong plants in a hill. For pickling, plant in June. Sprinkle vines with plaster or air-slaked lime, or use Slug Shot, to protect them from bugs.



PERFECT WHITE SPINE

PERFECT WHITE SPINE.—This improved strain is pronounced by good judges superior to all others. Fruit even, good size, straight, well formed and symmetrical. It is of uniform shape, making it unexcelled for pickling. Immensely productive and keeps a long time. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

SEE OUR OFFER OF CHOICE GARDEN FRUITS FOR PICKLING OR PRESERVING, OFFERED ON NEXT PAGE.

DAVIS PERFECT.—See Thrift Collection, page 34. Everyone who see the crop say they never saw anything to equal it. Dark, glossy, green, slim and symmetrical, with an average length of 10 to 12 in. When ripe they turn white without yellow. Quality fine, as seeds are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyields all others. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.25.



DAVIS PERFECT



IMPROVED LONG GREEN

SEEDS BY PARCELS POST

Customers are urged to use the Parcels Post. We return Excess Postage.

BE SURE AND ADD ONE POUND ADDITIONAL TO COVER WEIGHT OF PACKING

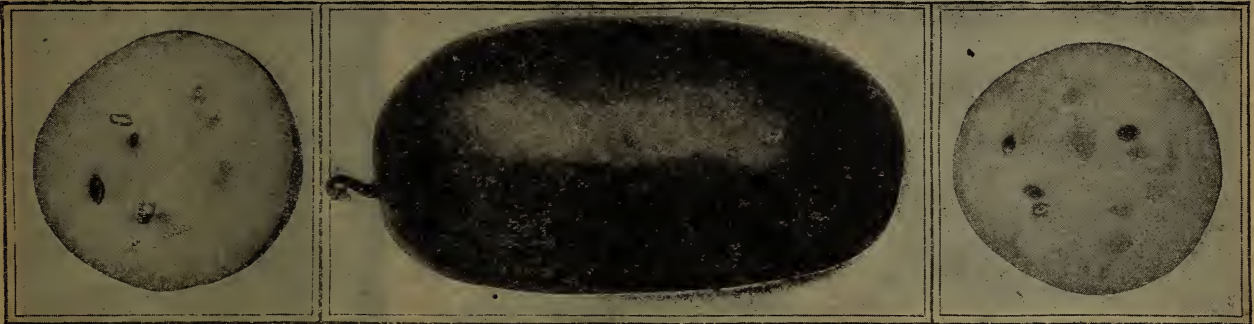
Many of our friends will prefer to have their seeds come by parcel post rather than by express. There is not much difference in the cost of transportation by these two methods, but if you want the seeds to come by mail you must send postage, because it must be prepaid. We submit herewith a table showing the postage per pound to each state. This is figured in the way to be most easily understood by our friends. The only thing to remember is to add one pound over the actual amount of seeds you order to cover the weight of packing. For example, you live in Alabama and you order three pounds of Gradus peas by parcel post. You will add 24 cents to the price quoted in the catalogue. If you live in Illinois and want 15 lbs. of peas by parcel post, add 64 cents to the price in the catalogue.

If the postage you send is more than is necessary the surplus will be returned to you inclosed in a small envelope within the package. If you do not send postage we will take it for granted you want the goods forwarded by express or freight.

Remember that we pay the postage on garden seeds ordered by the packet, ounce, quarter pound or pound, no matter what the cost, but on larger quantities postage must be added if we are to send them by mail.

OUR POSTAGE RATE FROM DES MOINES TO ALL IOWA POINTS IS ONE CENT PER POUND.

STATE	Postage Per Lb.	STATE	Postage Per Lb.
Alabama	6 cents	Missouri	4 cents
Alaska	12 cents	Montana	8 cents
Arizona	8 cents	Nebraska	4 cents
Arkansas	4 cents	Nevada	8 cents
California	10 cents	New Hampshire	8 cents
Canal Zone	12 cents	New Jersey	8 cents
Colorado	6 cents	New Mexico	8 cents
Connecticut	8 cents	New York	8 cents
Delaware	6 cents	North Carolina	8 cents
Dist. Columbia	6 cents	Ohio	6 cents
Florida	8 cents	Oklahoma	4 cents
Georgia	6 cents	Oregon	10 cents
Guam	12 cents	Pennsylvania	6 cents
Hawaii	12 cents	Porto Rico	12 cents
Idaho	8 cents	Rhode Island	8 cents
Illinois	4 cents	Samoa	12 cents
Indiana	4 cents	South Carolina	6 cents
Kansas	4 cents	South Dakota	4 cents
Kentucky	6 cents	Tennessee	6 cents
Louisiana	6 cents	Texas	8 cents
Maine	8 cents	Utah	8 cents
Maryland	6 cents	Vermont	8 cents
Massachusetts	8 cents	Virginia	6 cents
Mexico	12 cents	Washington	10 cents
Michigan	4 cents	West Virginia	6 cents
Minnesota	4 cents	Wisconsin	4 cents
Mississippi	6 cents	Wyoming	6 cents



Canning Club Vegetable Collection

EIGHT CHOICE GARDEN FRUITS FOR PICKLING, PRESERVING AND CANNING.

One Packet of each, sufficient for the ordinary garden, postpaid, only 50c.

Ground Cherry **IMPROVED YELLOW.**—Each year adds to the popularity of this little fruit which we introduced. They grow well on almost any dry soil, are easier raised than the tomato, are prolific bearers and oh! what luscious fruit. For sauce or pies they are excellent. They make delicious preserves and when dried in sugar are much better than raisins for cakes or puddings. Will keep in the husk, in a cool place, nearly all winter. Pkt. 10c; ½ oz. 25c; oz. 40c.

Garden Huckleberry When this was first offered to us we had little confidence in it, but after growing it we recommend it to our customers. It belongs to the Solanum family (Solanum Nigrum), which is the same class botanically as tomato, egg plant, and potato. Fruit is non-edible and by some considered injurious when green. When ripe they are about one-half inch in diameter, of shining black color and make delicious pies, preserves and jam. Pkt. 10c.

Apple Pie Melon A large citron melon of superior quality. See page 18 for description. Illustrated above. Pkt. 10c.



Branch From Plant
Improved Yellow
Ground Cherry

Vine Peach Introduced by us. Grow on a vine similar to the musk melon, and require the same cultivation. Fruit about the size of a large peach, oval shaped, and a bright orange yellow color, somewhat russety. For sweet pickles, pies or preserving they are superb. A glass jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Wonderfully prolific. Pkt. 10c, oz. 30c; ¼ lb. 75c.

American Mammoth Dill Popular annual herb used in pickling. Easily grown. Cut tops when ripened and dry. Keeps indefinitely. Pkt. 10c.

Lemon Cucumber A true cucumber. Vines are prolific and fruits are splendid for sweet or sour pickles. Fine containers for picilli or stuffed pickles. Pkt. 10c; oz. 25c.

Golden Nugget Tomato Best of the preserving tomatoes. Round in shape, bright yellow in color, and about the size of a hulled black walnut. Are large enough for table use, but are preferred for pies or preserves. Wonderfully prolific. Per packet 10c; oz. 75c.

Pimento Pepper Medium to large size, and suitable for making green pepper pickles, and to chop up for mixed pickles of any kind requiring peppers. The mildest of all. Splendid as a container for salads, since it is readily eaten in its natural state, either green or ripe. Per packet 10c.

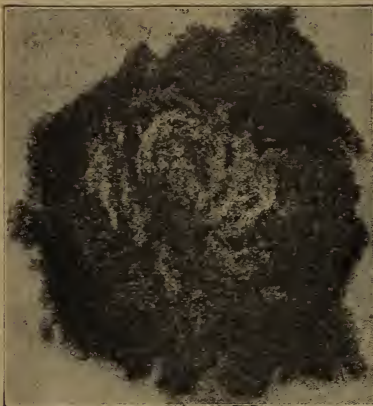


GARDEN HUCKLEBERRY

For sweet pickles, pies or preserving they are superb. A glass jar of these cut in halves and cooked in syrup presents a beautiful and tempting appearance. Wonderfully prolific. Pkt. 10c, oz. 30c; ¼ lb. 75c.



BLACK BEAUTY EGG PLANT



BATAVIA ENDIVE



EXTRA CURLED MOSSBACK KALE



WHITE VIENNA KOHL RABI

EGG PLANT

A tender plant that should be started quite early in a hotbed or box in the house, which must be kept warm. Transplant late to open ground, two feet apart.

IMPROVED NEW YORK.—Our strain of this leading market variety we believe to be unsurpassed. Very large size, skin deep purple, flesh white, of excellent quality. Very productive. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.00.

BLACK BEAUTY.—The earliest variety in existence, being much earlier than the above. Pkt. 15c, oz. 65c, $\frac{1}{4}$ lb. \$2.25.

ENDIVE

(One ounce will sow about 60 sq. ft.)

Preferred to lettuce by many. Should be more largely used. One of the best and most wholesome salads for fall and winter. Sow in April for early; in June or July for winter. When 8 inches long tie together with a string near the top to blanch.

BATAVIA.—Has smooth leaves and makes a handsome plant. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

GIANT FRINGED.—Also called winter lettuce. The best of all. Strong, vigorous grower, making large white heart; leaves are beautifully curled, and of best quality. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

GOURDS

Cultivate like cucumbers; they may be trained over lattice work, fences, etc.

JAPANESE NEST EGG.—Grows almost uniformly to the size, color and shape of a hen's egg. The shells are hard and make the very best nest eggs, as they do not crack. Pkt. 10c, oz. 20c.

DIPPER.—Makes a light, convenient dipper. Dippers of various sizes of a capacity from a pint to a quart and a half, can be had from a few vines. Pkt. 10c, oz. 25c.

SUGAR TROUGH.—Very large and strong grower. For buckets, etc. Pkt. 10c, oz. 25c.

LUFFA, or Dishcloth.—Has a peculiar lining, which is sponge-like, porous, tough, elastic and durable, making a natural dishcloth or sponge. Start early. Pkt. 10c, oz. 25c.

HERCULES' CLUB.—Grows to immense size—4 to 5 ft. in length. Pkt. 10c, oz. 25c.

MIXED UTILITY.—Seeds of the above mixed. This is a very popular item with our customers. Really useful in many ways. Easily grown. Pkt. 5c, oz. 20c.

GROUND CHERRY

IMPROVED YELLOW.—A delicious garden fruit fully described and illustrated on page 13 of this catalogue, where it is offered as one of the items of our Canning Club Collection. Pkt. 10c, $\frac{1}{2}$ oz. 25c, oz. 40c.

GARDEN HUCKLEBERRY

We recommend it to our customers. Fully described among the items in our Canning Club Collection on page 13. Pkt. 10c.

KALE

EXTRA CURLED MOSSBACK.—A most attractive variety; fine crimped leaves, light green; fine for garnishing. Best cooking. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

DWARF GERMAN GREEN, or Siberian.—A very popular variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

KOHL RABI

Try Kohl Rabi this year. It is a most excellent vegetable, intermediate between the cabbage and turnip. Cultivate like cabbage.

GOLIATH PURPLE.—A new sort of immense size, solid and sweet. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

EARLY WHITE VIENNA.—The flesh is white and tender and it is a good market sort. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

LEEK

Sow seed thinly in drills early in spring; thin out to stand six inches apart in the row. Early in the fall draw earth up about the stems as you would blanch celery.

LARGE ROUEN.—Largest and most uniform sort. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.



NEW YORK EGG PLANT



DIPPER GOURD



LARGE ROUEN LEEK

LETTUCE



BLACK SEEDED SIMPSON

(One ounce will sow 100 feet of drill.) There are four recognized types of lettuce. The curled leaf open type includes such well known sorts as Grand Rapids, Early Curled Simpson, Black Seeded Simpson and Prize Head. The crisp head type is represented by the Hanson, Iceberg and Immensity. The smooth leaf cabbage headed type grow large and solid and the best of this type including the California Cream Butter, Relish or Big Boston, May King and Salamander.

The Romaine or Coz lettuce is a distinct type, which grows close and compact and which can be blanched like celery. Sow in hotbeds in March and in the open ground as early as it can be worked, thinly in rows.

EARLY CURLED SIMPSON.—Retains a leading place among the favorites. It is the great variety for the backyard garden where only a small plot is available. Can be sown quite thickly and thinned out as used so that the later plants can have room to mature. Not called a heading sort, but produces pale green, somewhat crumpled leaves and is usable in all stages. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.40.

BLACK SEEDED SIMPSON.—This is the standard variety with market growers who grow lettuce under glass or in frames. Makes large loose heads of light colored, brittle leaves. Can be sown outside for first early use but will not stand hot summer weather. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.40.

ICEBERG.—Has large, curly light green leaves, sometimes slightly tinged with red. Has a rich well bleached center; stand the summer sun without blighting. We fully recommend this variety for home use. Really belongs to the head lettuce type, but is fit for cutting at any time and by thinning out the plants a succession is available. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.40.

IMMENSITY.—An extra large, crisp head variety. Plant farther apart than ordinary sorts and give room to grow. Make rows 18 inches and thin plants to 6 inches in the rows. Cultivate and you will be delighted with the great loose heads of such splendid quality. Plant the common garden kinds for early use and for cutting before maturity, but use Immensity for succession. Sow early as any other sort. Stands heat, does not run to seed quickly. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.40.

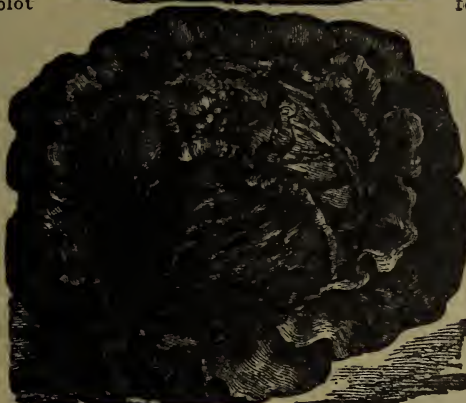
ROMAINE.—Very popular where choice flavor is especially appreciated. Leaves are of rather light green color, shading to white when blanched. More self-folding than any other variety of cos lettuce, so it is not necessary to tie the leaves in order that it may blanch. Possesses a peculiar flavor, crisp and delicious. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c,



ICEBERG LETTUCE



Improved Hanson Lettuce



RELISH LETTUCE

CALIFORNIA
CREAM
BUTTER

MAY KING LETTUCE.

MAY KING.—A very early variety of head lettuce of compact growth. The inner leaves are a bright yellow; the outer ones a light green, sometimes slightly tinged with brown. It is extremely tender and brittle. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.40.

IMPROVED HANSON.—As a head lettuce the Hanson has no superior, either for home use or for market. Makes the most solid large heads and is the surest to head of all lettuces. Stands heat well when grown out doors and does well in hotbed or greenhouse. Can be used as a leaf lettuce but is a splendid header. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

GRAND RAPIDS.—A splendid loose leaf lettuce. In appearance it is attractive and striking, as it is beautifully curled and crumpled. It does not for a head but produces a large number of leaves of pale green color which are finely curled and crumpled. Retains its crispness and sweetness when old. Grows upright and the lower leaves are generally clear of the ground, so that they do not rot. A favorite for forcing in hotbeds or for winter in greenhouses. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

RELISH, or Improved Big Boston.

—We are greatly pleased with this fine new variety. Is one of those rich, buttery-flavored varieties. Is preferred to the crisp-leaved sorts. Heads are extra large, very solid and the center blanches a rich cream yellow. Preferred as a salad sort with olive oil, vinegar or other salad dressing. Popular for market. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

PRIZE HEAD.—Leading brown leaved lettuce. Tender leaves, dark reddish brown. Heads large and rather loose, with very good flavor. We sell more of this than any other brown leaved variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

SALAMANDER.—Recommended for summer growing. Can be grown successfully for early crop, but will stand more heat with less loss of flavor and with greater certainty of heading than other kinds. The leaves are smooth, thick and light green. At maturity the heads are solid, creamy white inside, well blanched and of excellent quality. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

CALIFORNIA CREAM BUTTER.—A cabbage lettuce, with round, solid head, outside medium green, slightly marked with small brown spots; within, leaves are very rich cream yellow color, rich and buttery to the taste. Heads good size, compact, very hard and solid. Generally the heart only is eaten, with dressing of olive oil, vinegar, salt and pepper. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.50.

MIXED LETTUCE.—A careful and proportionate mixtures of the above. Pkt. 5c oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

LETTUCE SOWN BROADCAST ON GOOD GROUND MAKES EXCELLENT GREEN FEED FOR POULTRY. GIVE IT A TRIAL.

MUSK MELON

(One ounce will plant about 80 hills, 2 lbs. to the acre.)

Musk melons require a rich, well drained soil. Plant early as safe from frost; cultivate until vines cover the ground. Plant in hills 4 to 6 feet apart. Use plenty of seed.

EMERALD GEM.—Finest in flavor and the earliest to ripen; too soft to stand shipping any great distance; unequalled for home use or nearby markets. Vines are strong and vigorous; very prolific. Rather small and flattened at both ends. Emerald green between ribs. Flesh very thick, crystalline, of rich salmon color. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

BURRELL GEM.—A truly delicious melon about the same size and shape as Rocky Ford, but has rich, golden yellow flesh of most delicious flavor; solid and a most desirable shipping sort. The seed cavity is very small. Average about 6 inches long, $4\frac{1}{2}$ inches in diameter, and weigh $2\frac{1}{4}$ lbs. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. \$1.50.



BURRELL GEM



GRAND RAPIDS

GRAND RAPIDS.—An extremely early variety. Flesh pure yellow to the rind, finely netted. Larger than the Rocky Ford type, averaging in size with Osage, but it is claimed to be the earliest of the larger sorts. Of handsome and attractive appearance and is of good quality. We recommend Grand Rapids as a market sort. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

NETTED ROCK KING.—A golden fleshed variety of Rocky Ford type. A new sort which we prefer because of its wonderful sweetness. Rapidly taking first place among basket melons, and will be popular wherever tried. Shape shown by illustration at right. Size about the same as Rocky Fords. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.



BAY VIEW

PAUL ROSE.—Named for its originator. A cross of Osage and Netted Gem, combining sweetness and flavor of the former with fine nettings and shipping qualities of the latter. Size about midway between the parent sorts, salmon flesh. Splendid for hotel and restaurant trade. Peculiarly sweet, rich, delicious flavor. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

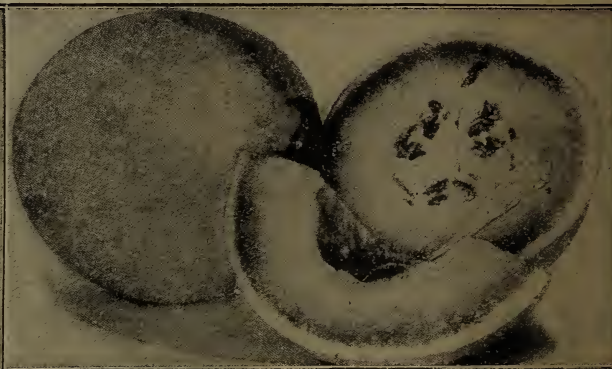
BAY VIEW.—A fruit of large size, often 10 or 15 lbs. Deep ribbed and coarse netted. The best large, late maturing sort. Of good flavor, productive, with firm flesh, and does not rot quickly. Many want the old-fashioned type of large musk melon and we list the Bay View in deference to this demand, as we consider it the best of this type. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



EMERALD GEM

HONEY DEW.—The picture is typical of its shape; the average size is about as large as a cocoanut, but the smaller sized melons are not inferior in flavor. Every melon is a good one. Flesh is light green and sweet as honey. The rind is straw yellow in color, smooth as an egg and hard as the rind of a winter squash. It is therefore a good shipper, is good right off the vine, and will keep good for months in a cool place. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50, postpaid.

THOROUGHbred ROCKY FORD.—This variety is in great demand by high-class hotels and restaurants. Just the right size for table use, slightly oval in shape, flesh thick of light green color, and fine, juicy, luscious flavor. Very early and wonderfully productive. Our seed is from the best melon grower at Rocky Ford. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



HONEY DEW MELON



NETTED ROCK KING

THE LARGE VARIETIES OF MUSK MELON, INCLUDING THE BEST OF THE DIFFERENT TYPES, ARE OFFERED ON NEXT PAGE.

MUSK MELON

IMPROVED GREEN NUTMEG.—Greatly improved strain of old Green Nutmeg. Fruit of medium size, very rich and melting, of exquisite flavor; flesh is light green. Very productive. A standard sort for many years and it is one of the best main crop sorts. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

IMPROVED EARLY HACKENSACK.—Largest early musk melon. Good quality, firm and heavy; deeply netted; flesh light green. Shape fine and is splendid market melon; as it ships well. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

ENORMOUS.—A new musk melon growing to immense size. Oblong with wide fissures. It is well netted but the fruits are so large that the netting does not show as heavily as on the smaller sized varieties. Specimens have been grown upward of 15 lbs. weight. The flesh is very thick, salmon colored and of better flavor than any other large melon. Pkt. 10c, oz. 25c.

TIP TOP.—(Orange Flesh.)—A fine, nearly round melon of such attractive appearance as to always sell quickly. It is sweet, juicy and delicious. Flesh firm but not hard, and is edible almost to the rind. Of medium to large size; evenly ribbed and moderately netted; strong grower, heavy yielder and handsome. One of the best of the orange flesh sorts. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.

OSAGE.—One of the best melons for family use; greatly liked by gardeners. Flesh salmon color, sweet and spicy, very thick and delicious to the rind. Seed cavity very small. It is seldom that one of poor quality is found. Medium size, oval, lightly ribbed. Skin thin, dark green color and covered more or less with shallow netting. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 45c, lb. \$1.50.



IMPROVED GREEN NUTMEG



OSAGE

CASABA MUSK MELONS

This is a class of very late maturing musk melons which do not ripen on the vines in the North, but are gathered before freezing weather and stored in a cool place and brought to a warm room for ripening.

GOLDEN BEAUTY, or Santa Claus.—The original round form; green; the best-keeper of all. Pkt. 10c, oz. 25c.

GOLDEN HYBRID.—Is shaped like Winter Pineapple; a beautiful golden color when ripened. Best flavored of this type but will not keep long. Pkt. 10c, oz. 25c.

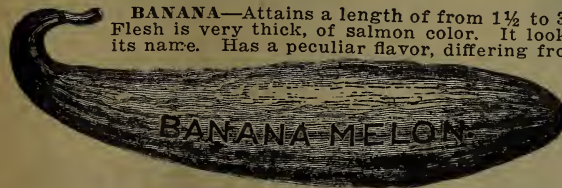


EARLY HACKENSACK



TIP TOP

BANANA.—Attains a length of from 1½ to 3 feet; 3 to 4 inches thick. Flesh is very thick, of salmon color. It looks almost like one, hence its name. Has a peculiar flavor, differing from ordinary musk melons and by some considered superior. Pkt. 10c, oz. 20c, $\frac{1}{4}$ lb. 50c.



BANANA MELON

ENORMOUS

MIXED MUSK MELONS.—A mixture of above varieties desirable for the diversity it offers, making an appeal to all different tastes. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MUSTARD

A pungent salad used for greens. Sow thickly in rows. One ounce will sow about seventy-five feet of drill.

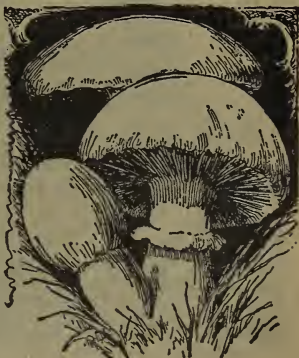
OSTRICH PLUME.—Leaves are long, ruffled, frilled and curved gracefully as an ostrich plume; desirable for garnishing. Can be cut quite early. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.

SOUTHERN GIANT CURLED.—This is the true curled leaf variety, so popular in the South for fall planting for early spring salad. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 45c, lb. \$1.25.

WHITE ENGLISH.—Seeds are white and is preferred by housewives for pickling on that account. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 45c, lb. \$1.00.

MUSHROOMS

The ease and certainty with which a crop of mushrooms can be grown and the astonishing success of so many who have taken up this new industry, induces us to call especial attention to the subject. We recommend mushroom spawn both for market garden and the private planter. Directions for culture sent on application. Per brick of 1 lb., by mail, 40c. By exp. or frt., not prepaid, 5 bricks \$1.25, 10 bricks, \$2.25, 100 bricks \$20.



MUSHROOMS



SOUTHERN GIANT CURLED MUSTARD



Reading from top to bottom: Excel. Tom Watson. Sweetheart, Golden Sweet

WATER MELON

(One ounce is required for forty hills; three pounds will plant an acre.)

A light sandy soil, with good exposure to the sun, is the best for water melons. It should be prepared deep, but receive shallow cultivation. Hoe often and thoroughly. Plant in hills 8 to 10 feet apart each way. Plant 8 to 10 seeds in a hill, and, finally, when danger of insects is past, leave but three strong plants. Thousands of melon growers depend on us annually for their seeds and are universally pleased, claiming that nowhere have they ever obtained seeds so pure and reliable. It pays to have the best. Packets contain about one hundred seeds.

IRISH GREY.—Shaped like Tom Watson, equally as large and fine. Distinctive in color. Skin is a very light green, with very small dottings of darker shade which are rather indistinct. Its general appearance is a bright gray, hence the name. A splendid new sort of choicest quality and attractive in appearance. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

NEW EXCEL.—(Cut No. 1.)—Resembles the well known Monte Cristo, but is larger in size, often weighing 60 lbs. Similar in shape and color and will be taken for Monte Cristo by those not familiar with this new variety. Has all the melting, delicious sweetness of its prototype, and surpasses it in size, shipping qualities and market value. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

TOM WATSON.—(Cut No. 2.)—A leader among melons, because of quality and shipping excellence. No variety to our knowledge combines both essentials as does this melon. The Tom Watson is a large, oblong melon, skin dark green, with thick netting on the entire surface, quite distinct from other varieties. It averages 18 to 24 inches long and 10 to 12 inches in diameter and it weighs 50 to 60 pounds. The rind is thin but tough and flesh a bright, attractive red color, crisp, sweet and delicious. The heart is large with no core. Seeds brown, tipped white. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

SWEETHEART.—(Cut No. 3.)—Favorite Des Moines market sort. It is early, large, handsome, heavy, a good shipper, long keeper, of bright color and good quality. The fruit is large, oval, very heavy, uniformly mottled light green; rind thin but firm; solid, tender, melting and delicious. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 35c, lb. \$1.00.

GOLDEN SWEET.—(Cut No. 4.)—The Golden Sweet is a most delicious and fine flavored melon, unsurpassed for sweetness and aroma. Outside skin dark, shape oblong, as shown, size medium, a little larger than Monte Cristo, averaging about 20 lbs., just right for family use. Rind very thin but hard and will carry without cracking or bursting. Flesh golden yellow, solid, smooth, with few seeds. This is without exception the highest quality water melon in the list, and this is true of every melon in the field. We have never yet found a poor melon. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c.

MOUNTAIN SWEET.—The old standard, is still quite popular in the North, where large fruited southern sorts do not ripen. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

CITRON MELONS

Nice for preserving and largely used for this purpose.

APPLE PIE.—Will be appreciated in many parts of the country. Illustrated on page 13 of this catalogue. Vine and fruit similar to a water melon and easily grown on any good soil. Each hill produces from 5 to 15 fruits and one of the large size will make as many pies as a half bushel of apples. The flesh is white, solid throughout and of excellent quality for making pies, preserves, etc., and resembles apples in flavor. They keep nice and fresh all winter, so they can be used any time and any surplus can be fed to the live stock. Pkt. 10c, oz. 25c.

COLORADO PRESERVING.—This is a large fruiting strain of citron for preserving. The flesh is clear white and very solid. Green seed. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

RED SEEDED CITRON.—Is round, dark green, striped and mottled with light green. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.



COLE'S EARLY

MCIVER'S SUGAR

FORDHOOK EARLY

IMPROVED TRIUMPH

WATER MELON

COLE'S EARLY.—Decidedly the finest variety for the private garden, but is too brittle for long shipment. It is very early and will mature farther north than most other sorts. Of medium size; very productive. Flesh bright red, of granulated, sparkling appearance. In flavor lusciously sweet and refreshing. One of the best early melons and is specially valuable for growing for home market. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MCIVER'S WONDERFUL SUGAR.—This is a famous melon for sweetness and high quality. The fruits are long and of large size, averaging about 50 lbs. each. Is considered one of the handsomest melons, being rather light colored, irregularly striped and mottled with dark green. Rind is rather thin but tough; a good shipper. Flesh is delicate light red, entirely stringless and tender, and juicy and luscious. Vine is a strong, vigorous grower, very prolific and withstands extremes of weather, either wet or dry. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

FORDHOOK EARLY.—Large early variety. From seeds planted May 10th, ripe melons have been produced the last of July. The rind is tough, making it valuable for shipping. Color is uniform medium green; flesh red, very sweet, solid, and of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

IMPROVED TRIUMPH.—Is undoubtedly the largest of all melons, having been grown to the extraordinary weight of 147 lbs. Very productive. It is of dark green color, matures in good season, flesh dark red, solid, and of excellent quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MONTE CRISTO, or Kleckley's Sweets.—A wonderfully popular variety everywhere. After testing all varieties of melons, we do not hesitate to pronounce this one of the sweetest, juiciest, most delicious melons, faintly striped, flesh bright red and peculiarly rich, crisp and pleasant flavored. It ripens early, is of good size, is a good shipper and a long keeper. Market gardeners will also be pleased with it. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

HALBERT HONEY.—The aristocrat among water melons. A very early variety; medium size; fine, oblong shape; very prolific and even size; skin handsome dark green; flesh a rich crimson, fine grained, melting and exquisite flavor. Has no superior as a home or near by market melon but rind is too thin to stand much handling. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 35c, lb. \$1.25.

FLORIDA FAVORITE.—Shape and color well shown in the illustration above. It is a real favorite because of sweetness and fine texture. It is of large size and attractive appearance and is popular both for home use and market selling. Solid and heavy and ships well. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

PEERLESS, or Ice Cream.—(White Seeded.)—Very early, medium size, thin rind, flesh is bright scarlet. It is the great home market melon. Few sorts surpass it in melting, delicious quality. Color green, slightly mottled, shape oblong to round, and appearance attractive. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

My friend wanted me to refer her to some good seed company and I knew of none better than yours.—Mrs. L. J. Martin, Cushing, Oklahoma.



MONTE CRISTO



HALBERT HONEY



FLORIDA FAVORITE

WATER MELONS ARE ENJOYED BY EVERYONE. THEY ARE FAR SUPERIOR IN FLAVOR AND QUALITY WHEN HOME GROWN



Good onion seed is of the utmost importance as it is one of the most important crops grown, and there is no other vegetable where the quality of the seed exerts a greater influence upon the crop than onions. There is more money in onions grown from seed than almost any other crop. Fully realizing this, we have for many years made a specialty of onion seed which is all grown from choice, selected bulbs, critically examined before being set out for seed. In vitality it is very strong, being carefully tested, and we are sure that **OUR ONION SEED CANNOT BE EXCELLED** in purity, vitality or high quality. Large onions can easily be grown the first year from the seed by obtaining our American grown onion seed. The crop was short this year and prices may advance. In comparing our prices with others, remember that we **pay the postage**. Deduct ten cents per pound if to be sent by express. Ask for prices in large lots.

YELLOW GLOBE DANVERS.—Handsome, globe-shaped sort of large size, yellow skin, white flesh, fine grained, mild, very firm and the best of keepers. Has yielded 1,000 bu. per acre. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

EXTRA EARLY BARLETTA.—Is a distinct variety; the very earliest onion in cultivation. They are of a pure paper-white color, very delicate in flavor, and in size grow 1 to $1\frac{1}{2}$ inches in diameter. For table use and pickling it is most valuable. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.



LARGE RED WETHERSFIELD.—Is the standard sort throughout the country, the easiest to grow and the surest to make a good crop, being hardy and not subject to decay in very hot or wet weather. Of finest form, skin deep purplish red. The flesh is purplish white, and finer grained than many of the red sorts. Our seed is extra select and cannot be excelled. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50. By express, 4 lbs. for \$8.00.

SOUTHPORT RED GLOBE.—This is a very handsome variety and is deserving of general cultivation. It is medium early (none of the perfectly globe-shaped onions are as early as the flat varieties; grows to a large size, skin deep red, flesh fine grained, mild and tender. It is steadily increasing in popularity as the market is demanding glob-shaped onions more than formerly. They require better soil and cultivation to make a crop than the flat varieties, but much more than pay for it in increased yield and price. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.75.

GOLDEN GLOBE.—Offered by us as the very best yellow, globe-shaped onion for general culture. We prefer it to the red varieties because it is of mild flavor and much more handsome. Always uniform in shape, size and color. Is surely thoroughbred, and the entire crop looks like carefully hand-selected onions. See Thrift Collection, page 34. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

CULTURE.—One ounce will sow about 100 feet of drill; 4 pounds will sow one acre. The soil for onions should be a rich loam thoroughly enriched with well-rotted manure and pulverized before sowing the seed. It should be as free from weeds and grass as possible. As early as the ground can be worked in the spring, sow the seed in drills 14 inches apart, covering one-half inch. Commence hoeing as soon as the rows can be seen; skim the ground over the surface; avoid stirring deeply, and work the soil away from the bulbs. At second hoeing weed carefully and thoroughly by hand. For pickles or sets the seed should be sown very thickly and in broad drills, about 50 pounds to the acre for sets, and 15 to 20 pounds for pickling. For sowing seed and cultivating the crop it will pay you to purchase a good drill and hand cultivator. See description elsewhere. Lang's Hand Weeder, price 30c, postpaid, is the best hand weeder made.

LARGE WHITE GLOBE.—The handsomest market variety; beautiful, clean, pure, silvery white bulbs, of large, even size, globe-shape, mild and pleasant flavor, and outsells every other variety. Undoubtedly the best white sort. Will yield as many bushels per acre as any of the American varieties. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.

WHITE PORTUGAL or SILVER SKIN.—Standard white variety for general culture. Bulbs grow flat to good size, ripening early and quite evenly. Flesh mild and sweet; skin a clear silvery white, of very handsome appearance. Sown thickly at the rate of 20 lbs. per acre will produce immense crops of small onions for pickling and for sets. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.00.



GOLDEN GLOBE



MAMMOTH PRIZETAKER

MAMMOTH PRIZETAKER.—One of the largest, handsomest, finest flavored, and in every way a choice variety of yellow onion, having been grown to enormous weight of over 6 lbs. Of a clear, bright straw color, and uniform, perfect globe shape. Produces enormous crops, one report being of over 1,200 bu. per acre, and they bring an extra price, being sold on the market as fancy onions. Keep wonderfully well. Our seed is unexcelled, and is in great favor with our customers in all parts of the United States. They ripen up hard and firm, and present the handsomest possible appearance in market while the pure white flesh is fine grained, mild and delicate in flavor. To grow the largest size, sow seed early in hot beds and transplant to open ground as soon as the weather is favorable. Pkt. 10c, oz. 25c, ¼ lb. 85c, lb. \$3.00.

GIANT VESUVIUS.—This mammoth variety is a foreign sort. It is well shown by our illustration. In rich soil, under good cultivation, they grow to an enormous size the first year. They are of a handsome globe shape, somewhat elongated, and are veritable beauties. Will attract attention anywhere. The color is almost blood red; flesh is nearly white and quality most excellent. This variety is much more tender and mild than the American sorts. Pkts. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.

BIG ONIONS

For table use large onions are much preferable to small ones and they bring a better price on the market. The varieties listed on this page are of immense size, splendid quality and yield wonderfully large crops. While they do not keep quite as well as some other kinds, still they are usually good till January or February.

The 5 Giants

One Packet Each of
Mammoth Prizetaker
Ailsa Craig, Copper
King, Giant Vesuvius
and Silver King.

FOR ONLY 35 CENTS

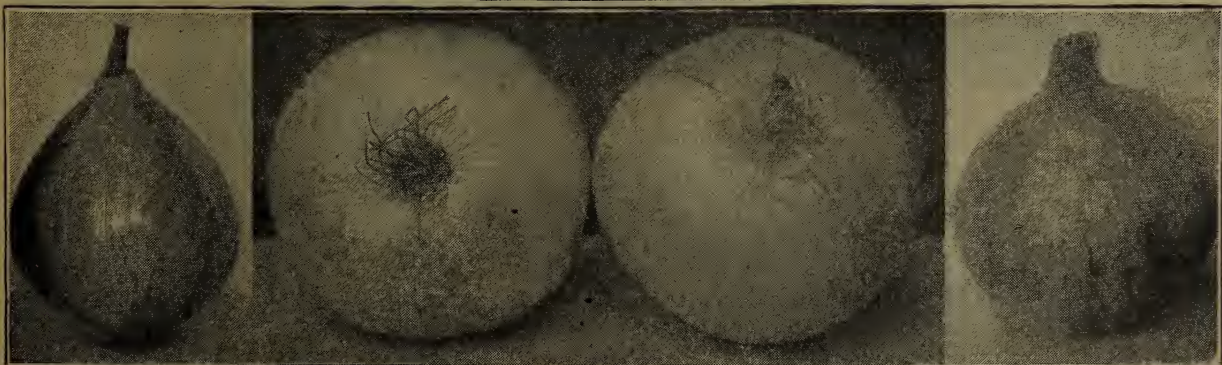
With each of these "Five Giant" collections we will send a circular giving full directions for "Growing Big Onions."

AILSA CRAIG

AILSA CRAIG.—A mammoth variety introduced from England, where it has exceeded all other varieties in size, and because of its very light (almost white) color is exceedingly popular as a market sort. It is claimed that the largest onion ever produced was of this variety, weighing nearly seven pounds. Shape and style of the Prizetaker. Color is pale straw yellow. Flavor is exceedingly mild and sweet and its appearance is so attractive that it will command the highest prices. Pkt. 10c; oz. 30c; ¼ lb. \$1.00.

MAMMOTH SILVER KING.—The largest white onion, no other approaching its mammoth size. Of attractive form, flattened, but thick through as shown in cut. Often weigh from 2½ to 4 lbs. each. Beautiful silvery white; flesh snowy white, sweet and tender and can be eaten raw. Matures early; of uniformly large size, perfect shape and bring a high price in market. Pkt. 10c, oz. 30c; ¼ lb. \$1.00; lb. \$3.50.

COPPER KING OR MAMMOTH POMPEII.—Have been grown to the enormous weight of 5 lbs. 6 oz. and notwithstanding their large size they retain their shape and fine quality. To obtain an idea how large this really is, just weigh the largest onion you can find and compare weights. Copper color, flesh white, fine grained, mild. Pkt. 10c, oz. 25c; ¼ lb. 85c; lb. \$3.00.



GIANT VESUVIUS

MAMMOTH SILVER KING

COPPER KING

AUSTRALIAN BROWN.—Color is peculiarly clear amber brown, quite distinct from any other variety. It is one of the best in keeping qualities, and grows to large size. A splendid shipping variety as it will carry any distance. Equals Red Globe in every valuable quality and will keep even longer than that splendid sort. Many people think the red onions two strong in flavor and this variety will be preferred in such cases. The distinct color is an advantage in many markets while for home use it is the equal of any. In California where onions are a staple crop this is the popular variety because of its hardiness, vigor and wonderful crops produced. Our seed is American grown. Pkt. 5c! oz. 20c; ¼ lb. 65c; lb. 2.25.

EXTRA EARLY RED.—Similar in shape and form to the popular Red Wethersfield variety but matures very much earlier. It is of medium size, flat in shape, deep red in color, solid and coarser grained. It will mature and make good bulbs in bad seasons when the larger later kinds will not produce the best results. It is particularly recommended for the north and northwest where the seasons are short and cool and it will be found most profitable in these regions. It will be ready to market far in advance of the ordinary round onions and this is an advantage because generally the early price is the best. They are easy to keep all winter and can be sold any time that the grower may desire. Pkt. 5c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

YOU SHOULD HAVE A GOOD DRILL AND CULTIVATOR TO GROW ONIONS. WE RECOMMEND THE PLANET JR. TOOLS



RED, WHITE AND YELLOW ONION SETS FROM SEED

ONION SETS

For early onions for bunching; ready for the table in a very few weeks. Is cheaper to grow from seed but is considerable work to weed, and many prefer to buy sets. Price per pound includes postage; deduct 10c per pound if by express. Three pounds and larger lots shipped at buyer's expense. Legal weight of top sets 28 lbs. per bushel; other kinds 32 lbs. so that 1 lb. equals 1 quart. Write for prices for large lots.

WHITE BOTTOM SETS.—White onion sets from seed are best for early use and large onions. $\frac{1}{2}$ lb. 20c, lb. 40c, postpaid; not prepaid, 3 lbs. \$1.00.

RED BOTTOM SETS.—Are like the white, except that they are of dark red color. Very hardy. $\frac{1}{2}$ lb. 20c, lb. 35c; not prepaid, 3 lbs. 90c.

YELLOW BOTTOM SETS.—Like the white, except color. More used than any other kind. $\frac{1}{2}$ lb. 20c, lb. 35c; not prepaid, 3 lbs. 90c.

POTATO ONION SETS.—A species of Multiplier Onion, increasing from bulb; early; matures quickly; mild. $\frac{1}{2}$ lb. 20c, lb. 35c; not prepaid, 3 lbs. 90c.

SUMMER ONION SETS.—Commonly known as Button Onion Sets. $\frac{1}{2}$ lb. 25c, lb. 45c; not prepaid, 3 lbs. \$1.20.

PERENNIAL, or Winter Sets.—Also called Egyptian or Tree Onions. Usually set in fall; produce earliest spring onions without winter protection. Do not make large bulbs. $\frac{1}{2}$ lb. 15c, lb. 25c; not prepaid, 3 lbs. 55c.

**BOTTOM
ONION SETS**



**POTATO
ONION SETS**



YOUNG ONIONS GROWN FROM SEED SETS

OKRA

One ounce will sow about 80 feet of drill.

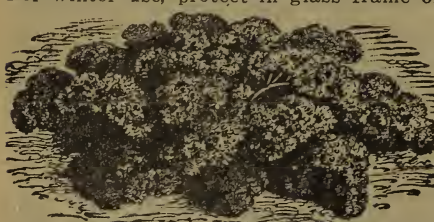
Nice for soups, stews, etc., and also much liked when pickled. Sow at the usual time of tender vegetables in drills 2 in. deep, leaving the plants 2 to 3 ft. apart. Pick pods while quite young; slice crosswise before cooking.

WYRICK'S NEW GIANT.—Wonderfully productive. Pods shoot out from the stalk within 3 in. of the ground, and the whole plant is covered with them. Pods are vivid green, 8 to 9 in. long. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.

WHITE VELVET.—Pods round and smooth, of attractive appearance, very tender; superior flavor. Plants dwarf. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.

PARSLEY

(One ounce will sow 150 ft. of drill.) Sow early, thinly, in drills, 1 ft. apart, $\frac{1}{2}$ inch deep. Soak seed in warm water a few hours before sowing. For winter use, protect in glass frame or light cellar.



MARKET GARDENER'S PARSLEY.

MARKET GARDENER'S.—An extra choice stock with dark green, curled, mossy leaves, very productive. Valuable for either garnishing or flavoring. Earlier than other varieties. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

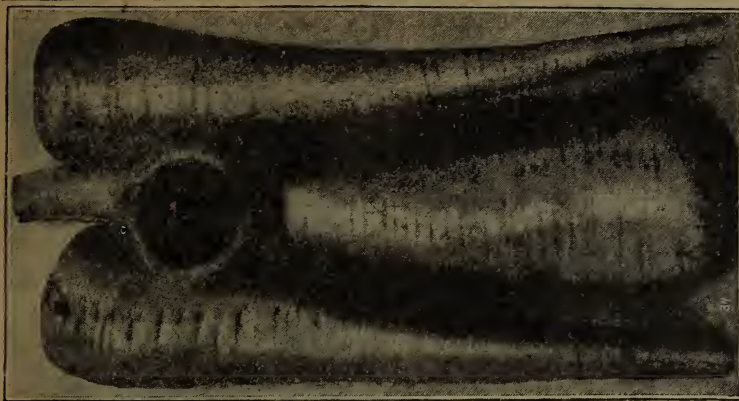
CHAMPION MOSS CURLED.—Very select stock, finely crimped and curled. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

HAMBURG.—Turnip-rooted variety, used for flavoring soups. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.



WHITE VELVET OKRA

ONION SETS ARE NOT PLENTIFUL THIS YEAR. YOU SHOULD ORDER EARLY TO BE CERTAIN OF SUFFICIENT SUPPLY



HOLLOW CROWN PARSNIP

PARSNIP

(One ounce will sow 200 feet of drills. Five pounds will sow an acre in drills.)

Sow early in spring in good, rich soil, which has been plowed deep, in drills 15 inches apart, covering half an inch. Thin to 5 or 6 inches apart in rows. They are improved by freezing.

IMPROVED TABLE GUERNSEY.—A greatly improved and wonderfully fine strain of the Guernsey Hollow Crown Parsnip. The roots do not grow as long as the Hollow Crown, but are of greater diameter and more easily gathered. Very heavy cropper; roots are smooth with a deep, hollow crown and a small top. Flesh fine grained, sweet and of excellent quality; cooks evenly, center being as fine, soft, even quality. See Thrift Collection page 34. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

IMPROVED HOLLOW CROWN.—This greatly improved strain is smoother and of more even quality than the original; fine grained and excellent. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c.

No. 1=RED CAYENNE

No. 4=SWEET MOUNTAIN

No. 5=CHINESE GIANT

No. 2=PIMENTO

No. 3=LARGE BELL

PEPPER

(One ounce will produce about 1,800 plants.)

Sow seed in hotbed early in spring; transplant to open ground when the weather is favorable, in warm, mellow soil, in rows 18 inches apart. Seeds germinate slowly, require considerable heat.

CORAL GEM BOUQUET.—This new red hot pepper is the finest of the smallest sized varieties. Excellent for pepper sauce. Nice for mixing picilli. Pkt. 10c, oz. 75c.

RUBY KING.—Very large in size, $4\frac{1}{2}$ to 6 inches long by $3\frac{1}{2}$ to 4 inches thick. When ripe are beautiful bright ruby red and always remarkably mild and pleasant to the taste. Produces large, handsome fruit and is splendid for stuffed peppers or mangoes. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

CHINESE GIANT.—Most gigantic of all Giant Peppers. A fine mild red pepper of enormous size, magnificent appearance and brilliant, glossy scarlet color. The flesh is mild and unusually thick. Excellent for salad. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.00.

KALEIDOSCOPE.—A very ornamental new sort. The small fruit changes from cream color to canary, deepens to orange then turns into pink, until it becomes a deep, shining scarlet. Pkt. 10c, oz. 75c.

LARGE BELL, or Bull Nose.—The standard variety for mangoes or sweet pickle. Fruits large, uniform, thick meat and smooth, very pleasant mild flavor; prolific yield; early. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

MAMMOTH GOLDEN QUEEN.—Average a third larger than Ruby King. It is 8 to 10 inches long; bright waxy, golden yellow and mild flavor. A favorite variety for mangoes. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

SWEET MOUNTAIN, or Mammoth.—This pepper is in shape similar to Large Bell, but fruits are much larger and not nearly so pungent. Splendid sort for making stuffed pickle. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

PIMENTO.—This is a new and distinct pepper. Perfectly sweet, having no trace of pungency. Plants are loaded with fine, perfectly smooth fruits, medium size and thick meat. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.00.

RED CAYENNE.—Pods long and slim, of medium size. Pungent. For pepper sauce. Pkt. 10c, oz. 50c, $\frac{1}{4}$ lb. \$2.

RED CHILI.—Small, long fruit, but very hot. Used for pepper sauce. Pkt. 10c, oz. 60c, $\frac{1}{4}$ lb. \$2.25.

MIXED PEPPERS.—A mixture of the above and other fancy varieties. Fine for exhibition. Pkt. 10c, oz. 50c.

PEANUTS

Peanuts can be grown in Iowa, and everyone should plant at least a few for the children.

LARGE YELLOW.—This very desirable variety is early as the earliest, most hardy, very prolific and of best quality. Boys, here is a good chance for you. Shell nuts carefully so as not to break inside skin, plant as soon as ground becomes warm, from 2 to 3 ft. apart each way, 4 or 5 to the hill, covering 2 inches. Soil should be deep and mellow. Produce from 25 to 70 bu. to the acre; easily cultivated as corn. Pkt. 10c, lb. 50c. postpaid. By express 5 lbs. or more at 35c per lb.

SPANISH.—A very early variety; quite prolific, pods are small, but the yield is equal to larger kinds, quality excellent and will please you. Per package 10c, lb. 50c; 5 lbs. not prepaid at 35 cents per pound.



RUBY KING PEPPER

PEAS

(One pound will plant about fifty feet of drill; 2 to 3 bushels per acre.)

Peas mature quickest in light, dry soil, not too rich. May be sown as early as the ground can be worked, and for a succession every two weeks up to July; or, what is better, select several kinds which will form a succession in maturing. Sow in drills 2 to 4 feet apart, according to varieties, and 2 to 3 inches deep for general crop. The wrinkled sorts are marked.* They are more liable to rot if the ground is wet. We are this year offering peas by the pound and the pound prices include postage. Larger lots go by express or freight at customer's cost for transportation. If you want the larger lots to come by parcel post you must send postage as shown by table on page 13. The Iowa legal weight is 60 lbs. per bu. Pkts. hold 2 oz. each.

EXTRA EARLY SMOOTH VARIETIES

ALASKA.—Height 2 feet; the pods are rather small, dark green color, well filled; the earliest pea known, being two days earlier than the First and Best, and 90 per cent of pods can be gathered at first picking. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25 cents per pound.

IOWA CHALLENGE.—Extra early variety of superior merit which is a favorite with Des Moines gardeners. We can in confidence say that after a trial of nearly all extra early varieties we have not found one possessing more merit. All good qualities are most nearly brought to perfection in the Challenge. Height 18 inches. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

FIRST AND BEST.—A well known standard early pea. Ready to use several days before the early wrinkled varieties. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25c per pound.

***AMERICAN WONDER.**—An early dwarf wrinkled sort, popular extra early variety for family garden. Cannot be planted quite as early as smooth sorts; will not stand as much cold, wet weather but is far superior to them in flavor and table qualities. Dwarf, robust habit, growing about 10 in. high; produces a profusion of good-sized, well-filled pods of finest flavored peas. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30c per pound.

EARLY DWARF WRINKLED VARIETIES

***LITTLE MARVEL.**—A strong vine about 15 inches high, bearing tremendous crops of fair size pods, frequently borne in pairs. Pods $2\frac{1}{2}$ to 3 inches long, containing six to seven large, deep green peas. As early as American Wonder, more productive, and will be preferred by gardeners generally because of extra quality. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35c per pound.

***LAXTONIAN, or Pioneer.**—This variety is the finest of the very large podded, early wrinkled peas. Vine is not quite so long as Gradus but the pods are fully as large as those of that variety and there are twice as many of them. Both pods and peas are a rich, dark green in color and retain this rich color when cooked. This is the most satisfactory variety we had on our trial grounds last season. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35c per pound.

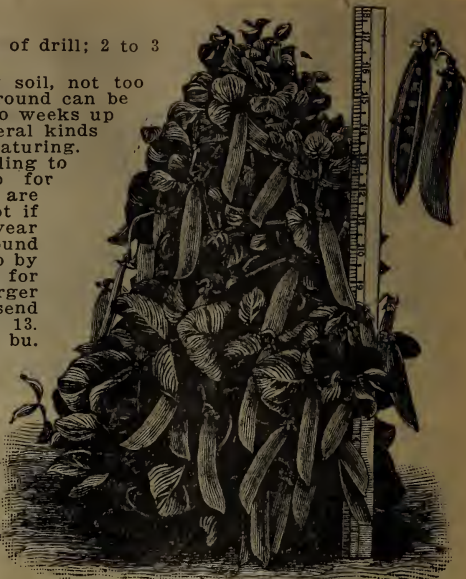
***PREMIUM GEM.**—For many years the standard dwarf wrinkled pea for the family garden, and market gardeners. Grows 12 to 15 inches high and requires no support. Pods large dark green, and quality is excellent. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***GRADUS, or Prosperity.**—This remarkable pea is not only large and of best quality, but it is nearly or quite as early as the small, round, extra early sorts. It is a wrinkled pea with the vine growing about 20 inches high. Pods bright green color and measure 4 inches or more in length. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

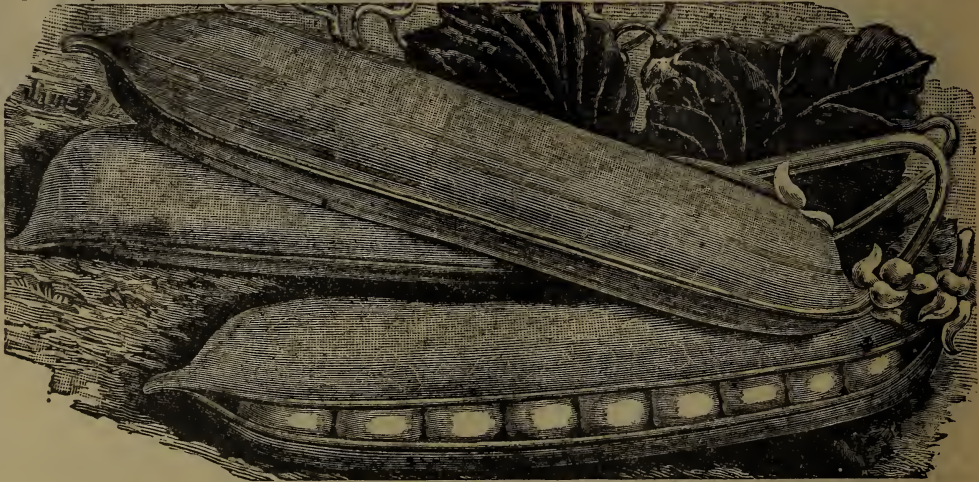
***NOTT'S EXCELSIOR.**—Is fully as sweet and delicious as American Wonder and grows one-half taller. Pods are larger and it is far more productive than the Premium Gem. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.



IOWA CHALLENGE.



PREMIUM GEM.

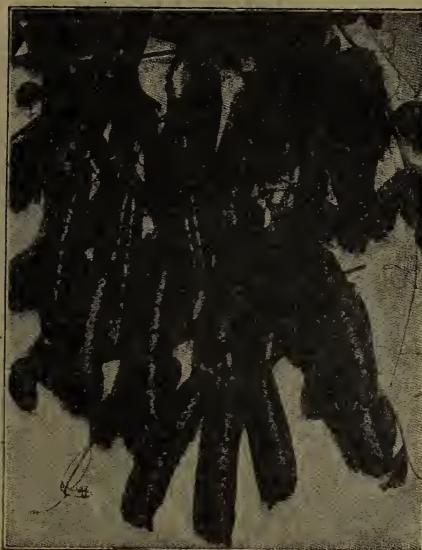


GRADUS, OR PROSPERITY.

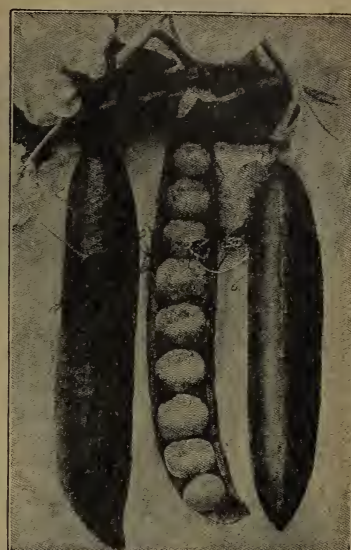




STRATAGEM



ABUNDANCE



DWARF CHAMPION

PEAS--CONTINUED

SECOND EARLY AND MAIN CROP VARIETIES

This class of peas all grow vigorously and should have support of some kind. Some of these, like the Dwarf Champion or Everbearing, will give fair results when not given a support, yet it pays to provide some kind of support, as they will yield very much more. Where brush cannot be had, poultry netting fence makes a neat and cheap support.

***DWARF CHAMPION.**—Splendid main crop variety; bears a profusion of good sized, well filled pods; vines seem less affected by mildew than most late peas; make a sturdy growth $2\frac{1}{2}$ feet tall. Very prolific; quality excellent. Much used by market gardeners. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 30 cents per pound.

***EVERBEARING.**—Fine for main crop. Grows about 2 ft. high, strong and vigorous, branches freely; does well without support. Continues to grow and produce pods a long time if pods are kept picked as they grow. Both pods and peas of good size. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

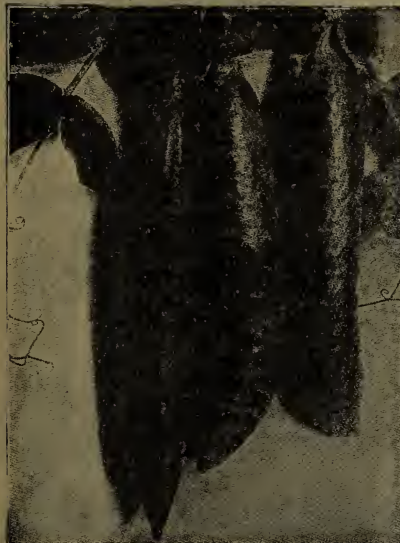
***ABUNDANCE.**—A second early with large pods containing 6 to 8 large peas. Height 3 ft. Quality first class, 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.

MAMMOTH LUSCIOUS SUGAR.—Bears pods much larger than any other variety, often 6 or 7 inches long and $1\frac{1}{2}$ inches broad. They should not be shelled, but the peas and pods eaten together. Grows quite tall, 5 to 6 ft. high and requires support. Pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid.

***IMPROVED STRATAGEM.**—Most popular late variety for market or family use. Preferred because of the immense size of pods and peas and exceptional sweetness and tenderness. Half dwarf sort, 2 to 3 ft. high. Is a vigorous grower and an enormous cropper. Pods contain 7 to 9 large peas. 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 45c, postpaid. Not prepaid, any quantity at 35 cents per pound.

DWARF WHITE MARROW.—An improvement on the old Large White Marrowfat. Fully as productive, but does not grow so tall and rank. Used almost exclusively for late midsummer planting by market gardeners and is very productive. Grows 3 to 4 feet and is best if supported, though support is not usually given. Peas are smooth and very large, 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 25 cents per pound.

***CHAMPION OF ENGLAND.**—Well known standard sort; grows 4 to 5 ft. high and requires support, but fine quality and large crop produced more than repays any extra labor required. A strong, vigorous grower, continues to bear for a long time, 2-oz. pkt. 10c, $\frac{1}{4}$ lb. 15c, lb. 40c, postpaid. Not prepaid, any quantity at 30 cents per pound.



CHAMPION OF ENGLAND



EVERBEARING



DWARF WHITE MARROW

THE SEED PEAS WHICH WE OFFER ARE THE BEST PRODUCED ANYWHERE IN THIS COUNTRY. THEY WILL PLEASE YOU.

PUMPKIN

(One ounce will plant 25 hills; 4 lbs. will plant one acre.)

The best, most enterprising and most prosperous farmers put in a crop of pumpkins every year. They can be grown separately or with a corn or potato crop, and do not seem to interfere in the least. They are valuable for feeding to stock, and what is a fair without pumpkins, or a Thanksgiving dinner without a pumpkin pie? Planted with corn, two pounds will plant one acre.

MAMMOTH PUMPKINS

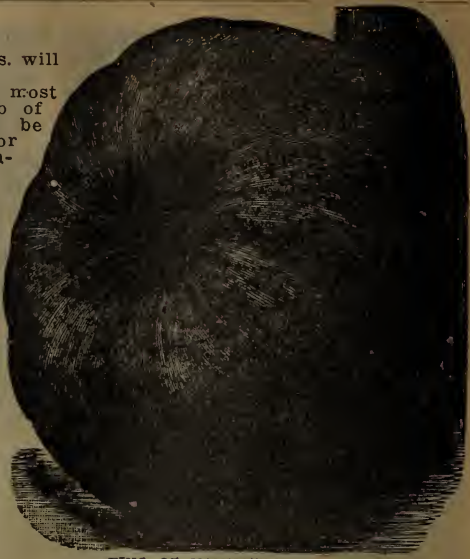
KING OF MAMMOTHS.—Largest true pumpkins. Flesh and skin a bright golden yellow, fine grained and of good quality. We know of one specimen that reached the enormous weight of 245 lbs. One customer writes us that he grew one that weighed 158 lbs., and on the same vine he had five other pumpkins from 80 to 104 lbs. each in weight—over 640 lbs. from one seed. Farmers and gardeners just think of that kind of a crop. Will it not pay to grow King of Mammoths and exhibit them at your county fair. Our seed is from select specimens. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

NEW ATLAS.—The largest of them all. We have grown this variety on our home seed farm for many years. They are uniform in shape and we have had them weigh as heavy as 300 lbs. Our seed is saved only from the largest sized, perfect shaped specimens. Just the thing for exhibition at fairs. Flesh is a rich yellow, very thick, and excellent quality, nutritious and profitable to grow for stock feeding. Pkt. 10c, oz. 25c, ¼ lb. 75c.

MAMMOTH TOURS.—Is also called "Mammoth Whale." Grows to immense size, sometimes 3 feet in length, and to a weight of 100 to 200 pounds. Flesh of a salmon color. Seed of a peculiar shape. Pkt. 10c, oz. 25c, ¼ lb. 75c.



ATLAS PUMPKIN



KING OF MAMMOTHS PUMPKIN

COLLECTION OF MAMMOTH PUMPKINS

One Packet Each of the New Atlas, Mammoth Tours and King of the Mammoths, sent postpaid for

ONLY TWENTY CENTS

PIE PUMPKINS

YANKEE PIE.—The noted New England Pie or Small Sugar Pumpkin. Same shape and color as the Connecticut Field but is smaller, very sweet, fine grained and one of the best varieties for table use. It pleases everyone for making pies. Early. Pkt. 5c, oz. 15c, ¼ lb. 45c, lb. \$1.50.

LARGE CHEESE.—This is a very popular pumpkin for pies and is quite commonly known as "Sweet Pumpkin." In size they average about as large as the Connecticut Field but are flat shaped, with creamy buff skin and thick golden flesh. It is one of the best of the pie pumpkins and can be grown in the corn like the common cow pumpkin. Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. \$1.25. Five pounds by express or freight at \$1.00 per lb.

GOLDEN RUSSET.—An extra choice sweet variety, also called Winter Luxury. Golden yellow, netted or russeted over surface; small to medium size. Unsurpassed as a pie pumpkin and a good seller on market. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

JAPANESE PIE.—This is similar in size and form to the well known Cushaw, but the skin is deep green, with dark stripes; earlier than any other pumpkin. Seeds marked with curious indentations. Flesh is very thick. Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. \$1.25.

GOLDEN CUSHAW, or Jonathan.—Like the old Cushaw in shape but of clean old gold color instead of green and white stripe. Flesh is solid, of deep orange color and very rich. Pkt. 5c, oz. 15c, ¼ lb. 55c, lb. \$2.00.

CONNECTICUT FIELD.—Is the common field or cow pumpkin. It is more generally grown than any other variety. Of good quality for culinary purposes. If you have any live stock plant some of these. Oz. 10c, ¼ lb. 25c, lb. by mail 90c. By exp. or frt. 10 lbs. \$7.50.

COLLECTION OF THE SIX PIE PUMPKINS

One packet each Yankee Pie, Large Cheese, Golden Russet, Japanese Pie, Golden Cushaw and 1 oz. Connecticut Field prepaid 25c



CONNECTICUT FIELD



LARGE CHEESE PUMPKIN

We have been buying seeds from you for our home garden for the past six years, and must say that they are much better than any we can obtain here. They are pure, true to name and sure to germinate.—W. R. Chandler, Boyd's Creek Tenn.



JAPANESE PIE.



GROW PUMPKINS AMONG THE CORN OR IN THE WASTE PLACES ABOUT THE FARM. THEY WILL PROVE PROFITABLE.



SCARLET GLOBE

One ounce will sow 100 feet of drill.

RADISH

FRENCH BREAKFAST

Eight to ten pounds will sow an acre in drill.

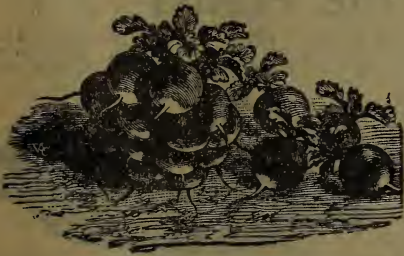
Radish seed should be sown in light, rich soil as early as the ground can be worked, and for a succession, at intervals of two weeks, until midsummer. Radishes must be grown quickly and have plenty of room or they will invariably be tough and pithy. Sow in drills one foot apart and thin to two or three inches apart as soon as the rough leaves appear.



SPARKLER

SPARKLER.—This is a new extra early, white-tipped, round radish. It is distinct in that the white tip is larger and more pronounced than in any other sort. The proportions of white and red are well shown in our illustration, and the contrasting colors being so nearly equal gives a most attractive appearance. Well adapted for either forcing in frames or private garden. Quality unsurpassed; remain solid and crisp a long time. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

EARLY SCARLET GEM.—Extremely early variety which has matured fit for the table in twenty days. Is fully grown in less than four weeks. It is of a perfect globe shape, and of bright, rich, scarlet color, tipped pure white. It has very few leaves, therefore is an excellent variety for forcing. In quality unsurpassed; tender, crisp, appetizing. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



SCARLET GEM RADISH

FRENCH BREAKFAST.—Of medium size and olive shape, with small top; of quick growth; beautiful scarlet color, shading to white. This is our old sort, but it still retains a place in the list because of its beauty and fine quality. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.

EARLY SCARLET GLOBE.—The most popular variety for hotbeds and forcing, as it is the earliest of all. Of handsome color, crisp, juicy and tender. It forms a small top and will stand a great deal of heat without becoming pithy. Is the gardener's standby for first early radish. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



EARLY BIRD RADISH

EARLY BIRD.—Decidedly the earliest of radishes. With loose soil and proper culture the Early Bird is ready for the table in twenty days from the time of sowing the seed, which makes it one of the most desirable sorts ever offered for either forcing or outdoor culture. It is of round or turnip shape, as shown in our illustration, of bright scarlet color and pure white flesh, which is tender, crisp and of the very best flavor. It has few and short leaves. Very desirable for the home garden and a money maker for the market gardener. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



GIANT FORCING

CRIMSON GIANT FORCING.—The most profitable variety for market gardeners, and may well be considered the most valuable new sort sent out for many years. A rapid growing variety, developing roots of beautiful deep crimson, perfect in shape and more than double the size of any other forcing variety. It often measures 9 inches in circumference without getting pithy or hollow, and retains its firmness and tenderness of flesh. It comes into market a few days after the smaller earlier kinds but drives them all out when it appears. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

MODEL WHITE BOX.—Of handsome shape, very early and has but few leaves, and one-third more radishes can be grown in the same space than with most varieties. Of clear white color, solid, juicy and unsurpassed in flavor. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.



MODEL WHITE BOX RADISH

THE ROUND SHAPE RADISHES ARE LISTED ABOVE. THE LONG VARIETIES ILLUSTRATED AND PRICED ON NEXT PAGE.

RADISH--CONTINUED

ICICLE.—A splendid long variety of almost transparent whiteness. Produces nice roots in twenty-two days from the date of sowing, and it continues in prime condition for a long period, so that in one sowing of seed, nice, crisp radishes may be had from spring until midsummer. It is much the most popular sort in the entire list. There is no variety that grows more uniform in type, and there are none that surpass it in quality. We recommend it as the best. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



BRIGHTEST LONG SCARLET

IMPROVED CHARTIER.—The roots are long and cylindrical, scarlet rose above, shading into pure waxy white at the tip. Flesh white, crisp and of mild flavor. Stands hot weather well. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

EARLY LONG SCARLET, or Short Top.—An old standard variety of quick growth; long, slender root. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

BRIGHTEST LONG SCARLET.—The handsomest long red radish which is very early. It is shaped like Long Scarlet, but the tips are white like the Chartier. The white and red colors in contrast make it a popular market sort. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.



MIXED RADISHES



WHITE STRASBURG

WHITE STRASBURG.—Of handsome, oblong, tapering shape, both skin and flesh being pure white. The flesh is firm, brittle and tender and retains its crispness even if old and large. Excellent for summer use. Very popular because it remains fit for use a long time and does not get pithy. Sometimes called the Sandwich Radish. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. 90c.

MIXED RADISH.—Our mixture of about two dozen kinds contains all shades and shapes; red, white, pink, variegated; round, half-long and long, in great variety. It is all the go for small gardeners, where space is limited and you want to make garden and be done with it. One sowing does for the whole season, as they come early, medium, and late. You always have some that are just right. You will be surprised and delighted with our popular radish mixture. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 30c, lb. \$1.00.

WINTER RADISH

SAKURIJIMA.—This is a giant variety of radish from Japan. It has been grown to the enormous dimensions of 43 inches in circumference. The flesh is solid, firm and brittle, and of excellent flavor. It will grow and thrive in any ordinary garden soil. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

CALIFORNIA MAMMOTH WHITE.—Large size, eight to twelve inches long, two to three inches thick, white, solid, of good quality. A very popular sort with market gardeners for late selling. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

CHINA ROSE WINTER.—A bright rose colored variety. The most popular of the winter radishes because of its bright color, firm flesh and long keeping qualities. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

LONG BLACK SPANISH.—A large, black-skinned radish, with firm white flesh of pungent flavor. A good keeper, lasting until spring. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

RHUBARB OR PIE PLANT

(One ounce will produce about 100 plants.) For price of rhubarb roots, see page 36. Succeeds best in deep, rich soil. Sow in the spring in drills, cover one inch. Thin to six inches apart; transplant in the fall or spring to permanent beds three feet apart each way.

IDEAL MAMMOTH.—The largest pie plant grown. Leaves four feet across; stalks three inches in diameter and three and one-half feet long, and this is not unusual. Have had them that large on two-year-old plants. They have a habit of dying down in midsummer and starting growth in August and September, which makes it just right for canning for winter use. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c. Roots 35c each, doz. \$3.00, prepaid; not prepaid, \$2.50 per dozen.

VICTORIA.—For many years the standard variety of rhubarb. Stalks are not so large as Ideal Mammoth, but are preferred by many on account of their more piquant and richer flavor. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 40c, lb. \$1.25.

BLACK SPANISH
AND CHINA ROSE
WINTER RADISH

YOU CANNOT BUY BETTER RADISH SEED THAN OURS NO MATTER WHAT THE PRICE OR WHERE YOU OBTAIN THEM.

One ounce of early varieties will plant about forty hills, 2 lbs. per acre.

Plant about the middle of spring in hills, the early sorts four to six feet apart, the late varieties eight to twelve. Thin to three plants in the hill. The soil cannot be too rich. Use Slug Shot to kill the bugs.

SQUASH

One ounce late varieties will plant about twenty hills, 4 lbs. per acre.



EARLY PROLIFIC MARROW

DELICIOUS.—A most desirable new winter variety. Color is green. Is about the same size as the Hubbard. Has very thick flesh, cooks dry and is of superior flavor. Although a good fall variety, it is best during the winter. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

TRUE HUBBARD.—This sort is the most popular winter squash grown; hard, green shell; flesh bright orange yellow, fine grained, very dry, sweet and rich flavor; keep in perfect condition throughout the winter. Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

SYME'S BLUE HUBBARD.—A new strain of Hubbard and a splendid squash. Very thick meat, fine grained, dry and excellent flavor. Color clear, light blue; thick shelled and a good keeper. It is a great improvement over the old Marblehead variety. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.00.

GOLDEN HUBBARD, also called Red Hubbard.—A counterpart of the old Green Hubbard, except in color, which is a bright, deep, orange yellow; fine flavor; in productiveness excels the green variety. Every market gardener will find it a "seller." Pkt. 5c, oz. 20c, $\frac{1}{4}$ lb. 65c, lb. \$2.00.

MAMMOTH CHILI.—The "Jumbo" of the family. Outer color rich orange yellow; skin smooth, wide fissures. Flesh very thick and of a yellow color. They keep well and are profitable for stock. Have been grown to weigh over 200 lbs. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.75.

PEERLESS VEGETABLE MARROW.—In England they consider this far superior to squash. Peerless is the most desirable sort, fruits being handsome shape, creamy white color, of excellent flavor. Very productive. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$2.00.

SALSIFY

VEGETABLE OYSTER

(One ounce will sow 50 feet of drill, 8 lbs. to the acre.)

It is one of the most delicious and nutritious of vegetables and should be more generally cultivated for use in the winter, when the supply of really good vegetables is limited. It has the true oyster flavor and is a delicious substitute for them in soup, etc. Cultivate like parsnips.

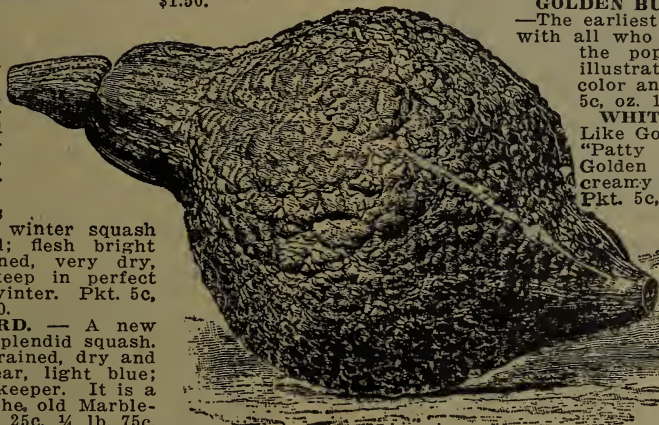
MAMMOTH SANDWICH ISLAND.—The best and most popular variety. The roots are white, smooth, and of superior quality. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.25.



SALSIFY

DES MOINES SQUASH.—Introduced by us under the name "Table Queen." Name changed at the request of Des Moines Market Gardeners Association. Vines are vigorous and very productive. Just the right size, averaging about 6 to 8 inches long and 4 to 6 inches in diameter. Color dark green, with sometimes a blotch of red at pointed end. Shell is hard and smooth, and ridged as shown in picture on page 34. Just wash it clean, cut in half, take out the seeds, bake 20 minutes and you will have the nicest squash you ever tasted. Splendid for pies. Ripens in the fall and keeps long as Hubbard. A novelty which we introduce with confidence. See Thrift Collection, page 34. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 75c, lb. \$2.50.

EARLY PROLIFIC MARROW.—Early and productive. In color brilliant orange-red; good cooking and keeping qualities. Ripens earlier than the Hubbards and is useful as an early fall variety. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.



TRUE HUBBARD



GOLDEN BUSH

GOLDEN BUSH.—(Yellow Bush Scallop.)—The earliest of all and quite a favorite with all who like summer squash. It is the popular shape shown in the illustration, bright golden yellow color and of excellent quality. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WHITE BUSH SCALLOPED.—Like Golden Bush. Sometimes called "Patty Pan." Differs from the Golden Bush in color only, being creamy white without other shading. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

EARLY BUSH CROOK-NECK.—Splendid, early, productive, fine quality. No summer squash superior to this. Shape long, with curving neck, skin warted. Preferred by many as the best early summer squash. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$2.00.

BANANA.—A distinct variety of fall and winter squash; very prolific, grows to 2 ft. or over in length; very fine grained, heavy; cooks dry but free from

"choky" quality common to winter squashes. Always rich, sweet and splendid flavor. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 55c, lb. \$2.00.



BANANA SQUASH

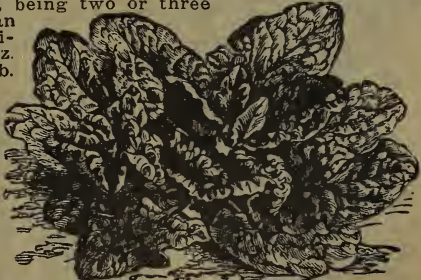
(One ounce will sow 80 ft. of drill.) **SPINACH** (10 lbs. is required to sow one acre.)

Makes the finest "greens" of any plant in cultivation. For summer sow early in spring in deep, rich soil, one foot apart in drills; cover one inch; sow at intervals of two weeks all summer. For very early use sow in September and protect.

VICTORIA.—A variety distinguished for its very long standing qualities, being two or three weeks later than the ordinary varieties. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

LONG STANDARD.—Standard with gardeners; leaves are thick, fleshy and crumpled. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.

BLOOMDALE.—Savoy-leaved, curled sort. Pkt. 5c, oz. 10c, $\frac{1}{4}$ lb. 25c, lb. 75c.



VICTORIA SPINACH

IF YOU RAISE MORE SQUASHES THAN YOU CAN SELL ON THE MARKET, THE LIVE STOCK WILL EAT THEM EAGERLY.

TOMATO

(One ounce will produce about 2,500 plants.)

Sow early in hotbeds or seed boxes and when plants have four leaves transplant to four or five inches apart. Give plenty of air and endeavor to secure a vigorous growth. When all danger of frost is past, transplant to the open ground, four to six feet apart each way. Well manured, light, sandy, soil is best. Our tomato seed is saved from hand picked fruits. No decayed or deformed tomatoes are used.

SPARKS' EARLIANA.—Probably no early tomato has so large a sale as Sparks' Earliana. Extremely early, remarkable for its large size, handsome shape, and beautiful

bright red color. One of the most profitable crops for the market gardener and especially desirable in the home garden. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

JOHN BAER.—This variety is offered as one of the earliest for home and commercial use. In our trials we found it to mature about the same time as Sparks' Earliana, which variety it resembles in size, shape and color. Vines are not very large, but are productive, bearing the fruits in clusters and abundantly. The Tomatoes are of medium size, nearly round in shape, scarlet in color and of excellent flavor. On account of the large yield, desirable size and shape, this variety it suited both for early market and home use. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

BONNIE BEST.—A very early and desirable variety. The fruits are most attractive in shape, solidity and color, which is bright scarlet from outside to center. The vines are strong and vigorous, producing a good crop of round, globe-shaped fruits which ripen more uniformly than other early sorts. A favorite with market gardeners. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.25, lb. \$4.00.

SUPERLATIVE.—The best of all the main crop, medium sized tomatoes. Fruits are medium size, very solid, and without exception the best flavored red tomato we have ever grown. It is very handsome, being a pinkish crimson in color. While we grow many other varieties on our seed farm, our



JOHN BAER



SUPERLATIVE

women folks use Superlative in preference to any other. See Thrift Collection, page 34. Pkt. 10c, oz. 50c.

MATCHLESS.—Well worthy of its name, for in beauty, color and symmetry of form it is indeed without a peer. Vines of strong, vigorous growth, well set with fruit, very rich cardinal red color, and not liable to crack from wet weather; of large size, and the size of fruit is maintained throughout the season. Solid, of fine quality, keeps well. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

PERFECTION.—Large and round, smooth and handsome red fruit of highest quality. It proves very satisfactory for forcing under glass. Pkt. 5c, oz. 25c, $\frac{1}{4}$ lb. 85c, lb. \$3.00.

DWARF STONE.—A dwarf, upright growing plant with fruits fully as large as the standard Stone variety. The fruits are held up well, while it is far superior to any of the other kinds in size. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

STONE.—One of the best standard sorts. Color bright red. Fruit large size, perfectly smooth and of best table quality.

Much used for canning. Productive. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

LIVINGSTON'S BEAUTY.—One of the best. Its size, beauty, shape, color, flavor and productiveness make it desirable to market growers. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

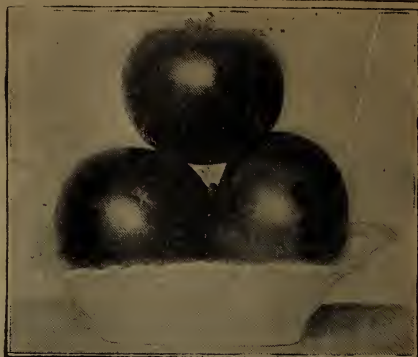
DWARF CHAMPION.—Plant dwarf and compact, stem stiff and short jointed, almost self-supporting when it is laden with fruit. Early. Color is purplish pink. Fruit is smooth, symmetrical, solid and of fine quality. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.

GOLDEN QUEEN.—Large, yellow. Its fruit is smooth and of finest flavor; ripens evenly; handsome. Pkt. 5c, oz. 30c, $\frac{1}{4}$ lb. \$1.10, lb. \$4.00.

PONDEROSA.—Very large, inclined to be irregular in shape, but of fine quality. A variety quite generally known, popular. Fruits solid, color purple. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

CRIMON CUSHION.—Can be grown on trellises. Grows 7 to 10 feet high, if desired; most of fruit is borne 3 to 4 feet from the ground. Fine quality, extremely large, excellent. Pkt. 10c, oz. 45c, $\frac{1}{4}$ lb. \$1.50, lb. \$5.50.

WONDER MAGNUS.—Deep rich, red color, very solid and containing few seeds. The best of the potato-leaved tomatoes. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00, lb. \$3.50.



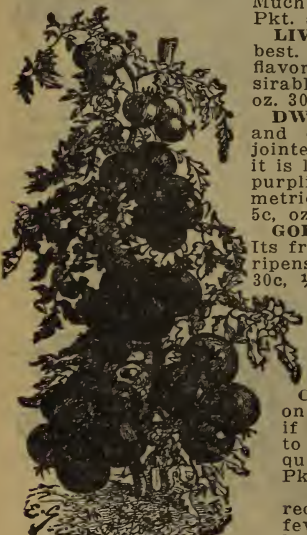
BONNIE BEST



MATCHLESS



THE STONE TOMATO



LIVINGSTON'S BEAUTY

GRAND TOMATO TRIO

THE THREE MAJESTICS

One Packet Each of the Three Majestics, 25c

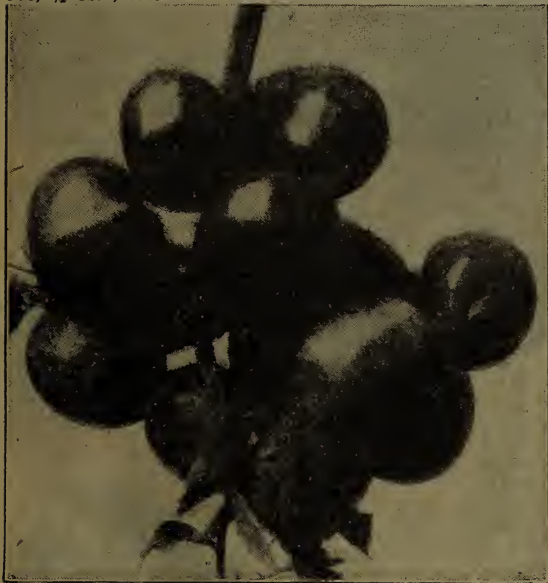
MAJESTIC.—This is the largest, handsomest and finest quality tomato ever sent out. When we first secured this grand sort we knew that it was of exceptional merit and superior in size and flavor to anything on the market, but we were astonished at the reports received from our numerous customers. Undoubtedly the largest fruited of any, and the fruit is solid, weighing more than its size would indicate. The first fruits matured are somewhat rough, but later they are smooth and handsome, of rosy red color, its core blending into delicate shell-rose tints. Fruit is unusually solid, with very small seed cells. Flesh is tender, fine grained and rich, yet of mild, delicate flavor, being of the sub-acid class. Plant is of vigorous growth and many of our customers report specimens of 3 lbs. to 7 lbs. each. The largest were, of course, grown by special culture. There were also many reports of 120 to 160 lbs. of tomatoes grown on one plant. Pkt. 10c, oz. 50c, ¼ lb. \$1.50.



RED MAJESTIC TOMATOES

RED MAJESTIC.—This new sort appears to have all the good qualities as well as large size of the world-renowned Majestic, but is a bright cardinal red in color, and for this reason may be preferred. Bears its fruit well up from ground, out of reach of the chickens. Many growing both this and the Purple Majestic pronounce the red variety superior. Pkt. 10c, oz. 50c, ¼ lb. \$1.50.

GOLDEN MAJESTIC, the \$1,800.00 Tomato.—A magnificent new variety which originated in northern Iowa, and we were so favorably impressed with it that we bought all the stock in existence and paid for same at the rate of \$1,800.00 per lb. It is the golden member of the great triumvirate, fully equal to its elder brothers in size, solidity, yield and flavor. Without hesitation, we pronounce it the grandest yellow tomato in existence. Nothing presents a more appetizing appearance than thick, luscious slices of alternating purple, red and yellow, cut from our Majestics. A trial will convince you of their superior qualities. Pkt. 15c, oz. 50c.



CLUSTER OF MAJESTIC TOMATOES

MAJESTIC TOMATO PLANTS

STRONG, WELL-GROWN, TRANSPLANTED
 Majestic Per dozen, 40c; per 100, \$2.00
 Red Majestic Per dozen, 40c; per 100, 2.00
 Golden Majestic .. Per dozen, 40c; per 100, 2.00

One dozen of each only \$1.00, postpaid.



PLANT OF MAJESTIC TOMATO

PRESERVING TOMATOES

GOLDEN NUGGET.—(See Canning Club Collection, page 13.) Fruits are beautiful golden yellow, round as a ball and about as large as a hulled black walnut. Flavor exceptionally fine, and a most desirable variety for eating from the hand or as a dessert fruit. Plants are loaded with most beautiful, rich, golden yellow fruits of delicious flavor. Pkt. 10c, oz. 75c.

PEACH.—Named from its resemblance to a peach in size and shape. Color a peculiar shade of pink and orange, differing from ordinary tomatoes. A fine sort for preserving. Pkt. 10c, oz. 50c.

YELLOW PEAR.—A favorite with all who know them. Pear-shaped and a deep yellow color. Highly valued for preserving or to make "tomato figs." They are fine pickled. Pkt. 10c, oz. 40c, ¼ lb. \$1.

CRIMSON CURRANT.—A most charming little fruit, hardly more than a half inch in diameter, of bright crimson color; borne in long clusters containing from twenty to sixty tomatoes. Excellent for eating from the hand or preserved. Pkt. 10c, oz. 60c.

STRAWBERRY, or Husk Tomato.—Also called Ground Cherry. Is of spreading habit and immensely productive. Pkt. 10c, oz. 40c.



GOLDEN NUGGET TOMATO

THERE ARE NO TOMATOES IN THE WORLD SUPERIOR TO OUR THREE MAJESTICS. PROVE THEIR MERITS BY A TRIAL.

One ounce will sow 150 feet of drill.

TURNIP

Two pounds will sow an acre.

For early, sow in April in drills half an inch deep and twelve inches apart; thin to six inches apart in the drill. For main crop sow broadcast in July and August, and before a shower if possible.

EXTRA EARLY PURPLE TOP MILAN.—One of the earliest sorts in cultivation. Bulb very flat, medium size, quite smooth, with a bright purple top; grows compact and makes exceedingly small strap-leaved top. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 60c.

EARLY WHITE MODEL.—Much like the above, but is pure white all over, instead of having purple top. Quite popular with gardeners. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 60c.

EARLY SNOWBALL.—A globe-shaped, white-skinned turnip, very fine grained, firm and of delicate flavor. One of the best keeping of white fleshed sorts, very early and particularly adapted for market use. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c.

GOLDEN BALL, or Orange Jelly.—A beautiful bright yellow turnip of medium size and universally sweet and delicious flavor. Is hardy and one of the best keepers. Flesh extremely firm and solid. Brings good price on market. If you have never tried yellow turnips we advise you to plant some of the Golden Ball this year. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c.

PURPLE TOP GLOBE.—Similar to the Purple Top Strap Leaved except shape. The largest yielder of any turnip on the list and always brings top market price. Produces wonderful crops, as much as 1,000 bushels per acre frequently. A splendid item for winter stock feeding. Usually fed in connection with mixed grain feeds. It is so fine in quality that it is very desirable for table use. See Thrift Collection, page 34. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

PURPLE TOP STRAP LEAVED.—The standard for this part of the country for late planting, and we sell immense quantities of it every year. One of the best table and stock sorts on the market, fine grained and of mild flavor. Of good size, flat shape, pure white below with purplish red top. Good cropper, excellent keeper. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

WHITE EGG.—A quick-growing, egg-shaped, perfectly smooth, pure

white variety with small top and rough leaves. The flesh is very sweet and mild, never having any rank, strong taste. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

MIXED TURNIPS.—All the table varieties mixed in equal proportions. For family use. Pkt. 5c, oz. 15c $\frac{1}{4}$ lb. 50c.

RUTA BAGA

Largely grown in the north for stock feeding, and for this are superior to turnips. Sow in June in drills 2 feet apart and thin out to 8 inches in the row.

IMPROVED AMERICAN.—Very solid, fine quality, good shape, smooth skin, small neck, keeps well. A choice strain of very best quality for table use or stock feeding. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

MONARCH.—This grand new and distinct form of ruta бага is, we believe, by far the most productive of all. Of tankard shape with very small neck, skin dark red above ground and yellow below. The flesh is rich yellow in color, fine grained and of good quality. Pkt. 5c, oz. 15c, $\frac{1}{4}$ lb. 50c, lb. \$1.50.

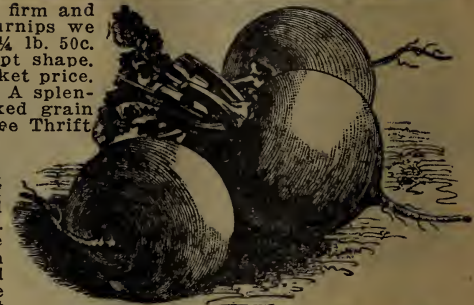
TOBACCO

BIG ORONOCO.—A favorite Virginia variety. Grows very large, broad leaves. A fine variety for dark plug wrappers and brings a good price in the market. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

CONNECTICUT SEED LEAF.—This is a staple variety in all sections of the country and will grow successfully over a wide range of territory. Used for cigar fillers. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

HAVANA.—The best known variety, as it is used very largely for cigar wrappers. Commands the highest market price when well grown and cured. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.

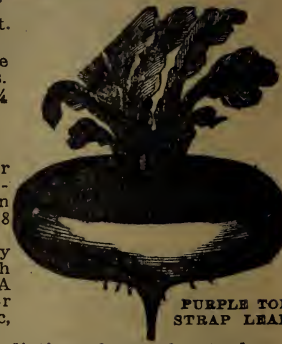
WHITE BURLEY.—A mild and sweet tobacco. It is the standard main crop variety in the tobacco sections as it is extra fine for manufacturing in nearly every manner that tobacco is used. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.50.



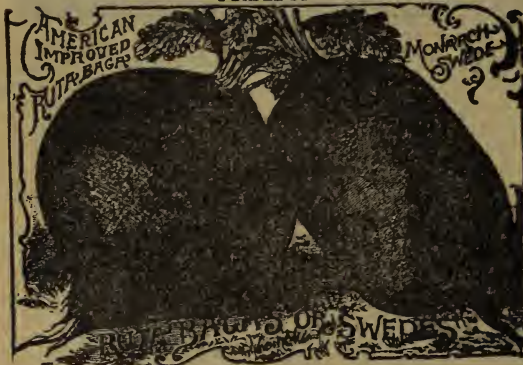
WHITE EGG.



PURPLE TOP GLOBE



PURPLE TOP STRAP LEAF



TOBACCO

GET THE SMALL GRAIN OFF EARLY AND SOW TURNIPS ON THE STUBBLE. TWO CROPS MAY BE SECURED IN THIS WAY.

TURNIP PURPLE TOP
GLOBE



CUCUMBER DAVIS
PERFECT



PARSNIP IMPROVED
GUERNSEY



TOMATO SUPERLATIVE



THRIFT COLLECTION

ONE FULL SIZE PACKET EACH OF
THESE EIGHT SUBSTANTIAL
VEGETABLES FOR 50¢ POSTPAID.

TURNIP
Purple Top Globe.
CUCUMBER
Davis Perfect.
PARSNIP
Improved Guernsey.
TOMATO
Superlative.
BEET
Market Gardeners.
SQUASH
Des Moines.
ONION
Golden Globe.
CABBAGE
Surehead.

IOWA SEED CO.
DES MOINES IOWA U.S.A.

BEET



SQUASH DES MOINES



ONION GOLDEN
GLOBE



CABBAGE SURE HEAD



THE THRIFT VEGETABLE COLLECTION

Eight Substantial Home Garden Vegetables.

One Packet of Each Sent Postpaid for only 50 cents anywhere in the United States



GOLDEN GLOBE ONIONS

first class main crop, late sort. Heads are almost round, solid and keep well in winter. It has been for a long time a rival of Premium Flat Dutch and still preferred by many to that excellent sort. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.25; lb. \$4.00.

Davis Perfect Cucumber

A good variety every way. Vines are stronger and leaves larger than most sorts, making a vigorous plant. The fruits are really perfect in all stages both as pickles, slicing cucumbers or cucumbers for sweet pickles. They are a lively, rich, green with white shading at the blossom end. Very tender, brittle and splendid flavor. A profuse bearer. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

Market Gardeners Beet

Without exception the one very best variety for the home garden. Almost as early as the early varieties and if not used early in the summer will not become woody but remains tender and crisp for winter use. A handsome oval in shape, rich red in color, fine grained and sweet. A vigorous grower and if given plenty of room on good ground grows to large size. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c; lb. \$2.00.

Improved Guernsey Parsnip

We introduced this excellent English variety to our customers several years ago and it not only became popular but its popularity is increasing, and justly so, as it is quite an improvement over the well known Hollow Crown, being shorter and not so slender. But its most desirable quality is that it cooks done as quickly as potatoes. Keeps well either when left out over winter or if stored in cellar. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.

Golden Globe Onion

—A select and highly developed strain of this type of onion. Preferable to red varieties because it is milder in flavor and handsome. It is solid and heavy, a splendid keeper, very uniform in shape, size and color. Certainly a good looker and as good as it looks. Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. \$1; lb. \$3.00.

Surehead Cabbage

This standard variety is properly named; makes fine solid heads with few outer leaves when it matures. A



DES MOINES SQUASH

The Des Moines Squash

(Formerly Table Queen.) This variety was introduced by us in 1914. It has since become very popular with market gardeners in this and surrounding states. Baked halves of Table Queen were served at the annual banquet of the Minnesota Vegetable Growers' Association two years ago and caused much favorable comment. The Iowa Vegetable Growers in their convention last year passed a resolution that the name be changed to include the name Des Moines. The entire name would be too long to be serviceable so we have dropped the name Table Queen and now list it as Des Moines. It is the same squash of unsurpassed flavor and sure to please. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.50.

Superlative Tomato

It may now seem extravagant to use the term "the best" yet this new variety is so much superior in quality and productiveness that it is well worthy of its name. The plant is vigorous and healthy with plenty of foliage. The fruits are large, very smooth, thick meaty, very solid, has never shown signs of rot or disease. Pkt. 10c; oz. 50c; $\frac{1}{4}$ lb. \$1.50.

Purple Top Globe Turnip

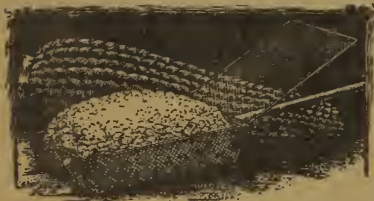
A standard variety, the largest of the table turnips, smooth skinned pure white with bright purple top, fine grained, firm, and sweet. A heavy yielder and a good keeper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c; lb. \$1.50.



SUPERLATIVE TOMATO

COLLECTION FOR THE CHILDREN'S CORNER

All children, and grownups, too, love melons, peanuts, pop corn and other good things to eat. Devote a small plot in the garden to the production of these items. Let the children have their own plot, do their own harvesting and see how much enjoyment they get from their work. They will take a great deal more interest in gardening for peanuts and pop corn, melons and fruits than they will in the growing of ordinary vegetables. The ground cherry, melons and tomatoes may be eaten as they ripen while the chufas, peanuts and pop corn will be a delight during the winter. Refer to illustrations and descriptions in the catalogue.



1 pkt. Yellow Ground Cherry, sweet and good;
1 pkt. Peach Tomato, fine flavored and small size;
1 pkt. Tip Top Musk Melon, large and fine quality;
1 oz. Sweetheart Water Melon, as good as its name;
1 pkt. Australian Hullless Pop Corn, the best pop corn variety;
1 oz. Chufas or Earth Almond, small sweet ground nuts of delicious flavor;
 $\frac{1}{4}$ lb. Spanish Peanuts, can be grown in any good soil.

Seven items of the best, and in quantity sufficient, amounting at regular value to 80 cents.

MAILED POSTPAID FOR ONLY 50 CENTS.



SPANISH PEANUTS

EVERY CUSTOMER SHOULD HAVE BOTH COLLECTIONS SHOWN ON THIS PAGE. COLORED ILLUSTRATIONS ON OTHER SIDE

HERBS

In making up your assortment of seeds for the year don't neglect to order a few varieties of herbs. The chief point is to harvest them properly, which should be done on a dry day when not quite in full bloom, dried quickly and packed closely and entirely excluded from air. Those marked with an asterisk (*) are perennial.

ANISE.—Seeds of agreeable, aromatic taste. Pkt. 5c; oz. 10c.

BALM.—For making balm tea. Pkt. 5c; oz. 25c.

BASIL, SWEET.—For flavoring soups, stews, etc. Pkt. 5c; oz. 15c.

CARAWAY.—Seeds are used for flavoring bread, etc. Pkt. 5c; oz. 10c.

CATNIP, or Catmint.—For seasoning. Pkt. 5c; oz. 30c.

CORIANDER.—Seeds used in confectionery. Pkt. 5c; oz. 10c; ¼ lb. 25c.

CASTOR OIL PLANT.—Seeds are pressed out to obtain oil. Pkt. 5c; oz. 10c; ¼ lb. 20c, lb. 50c.

CHAMOMILE.—Largely used for medicinal purposes. Pkt. 10c.

DANDELION.—Grown for greens, also for medicine. Pkt. 5c; oz. 35c.

DILL.—Used in making dill pickles. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c.

FENNEL, SWEET.—Leaves used in sauces. Pkt. 5c; oz. 10c.

HYSSOP.—For asthma and catarrh. Pkt. 5c; oz. 20c



***HOREHOUND.**—For seasoning and cough remedy. Pkt. 5c; oz. 20c.

***LAVENDER.**—Used as a perfume. Pkt. 10c; oz. 25c.

MARJORAM, SWEET.—For seasoning. Pkt. 5c; oz. 15c.

POPPY, or Maw.—Blue Seeded. Pkt. 5c; oz. 10c.

***ROSEMARY.**—Aromatic leaves used for seasoning. Pkt. 5c; oz. 40c.

SAFFRON.—Flowers used for coloring. Pkt. 5c; oz. 15c.

***SAGE.**—Much used for dressing. Pkt. 5c; oz. 20c; ¼ lb. 70c; lb. \$2.50.

SUMMER SAVORY.—Used for flavoring. Pkt. 5c; oz. 20c.

***THYME.**—Leaves and young shoots used for seasoning. Pkt. 5c; oz. 40c.

***WORMWOOD.**—Used medicinally, and also for poultry. Per pkt. 5c; oz. 20c.

MIXED VARIETIES.—A mixture of all the above. A nice garden assortment. Pkt. 5c; oz. 20c; ¼ lb. 65c.



HOLT'S MAMMOTH SAGE—AVERAGE SIZE LEAF

ARTEMISIA, or Broom.—A hardy plant sometimes called "Old Man." This perennial herb is not fully appreciated. It has great medicinal value and should have a place in every garden. The leaves have a pleasant odor and bitter taste. Use similar to wormwood. Each 15c; 3 for 40c.

CALAMUS.—Plain Leaf.—(Acorus.)—Also called "Sweet Flag." Leaves have an aromatic odor and roots a pungent taste. Grows in wet soil or beside ponds, but can be grown in dry places also. Each 15c; doz. \$1.50.

CHIVES.—Perfectly hardy little perennials of the onion tribe, and are grown entirely for their tops, which are used wherever flavor of onion is required. Plant in any common garden soil and they will grow readily. The tops appear very early in spring and can be shorn throughout the season. Roots per bunch 15c; 3 for 40c; dozen \$1.25.

CATNIP, or Catmint.—A well known perennial herb having great medicinal value. Used largely for infants. Each 15c; 3 for 40c; dozen \$1.25.

HOP ROOTS.—Golden Cluster.—A fine variety of commercial hops. The vines are very ornamental when trained over rockeries, stumps, etc., with the added value of usefulness from the crop produced. Each 15c; 3 for 40c; dozen \$1.25.

LEMON MINT.—Also called Citronelle. A perennial, hardy herb, leaves of which furnish a sweet lemon fragrance and flavor. Each 15c; 3 for 40c; dozen \$1.25.



ENGLISH CLUSTER HOP



CHIVES

MONARDA DIDYMA.—Also called Scarlet Bergamot and Oswego Tea. Not only useful as an herb, but very ornamental with its bright scarlet flowers. Each 15c; 3 for 40c; dozen \$1.25.

PEPPERMINT.—All children know and like the flavor of peppermint. It has a high medicinal value. Any pantry collection of dried herbs is incomplete if it does not contain some peppermint. Be sure that your order calls for at least a few plants. Each 15c, 3 for 40c; dozen \$1.25.

GENUINE PENNYROYAL.—Warm, pungent, of somewhat aromatic taste; used for medicinal purposes. Each 15c; 3 for 40c; doz. \$1.50.

ROSEMARY.—Used for perfume; for flavoring meats, stews, etc., and garnishing. Each 15c; 3 for 40c; doz. \$1.25.

HOLT'S MAMMOTH SAGE.—Great improvement on common sage. Plants very strong growing; leaves are very large and of unusual substance, strong in flavor and of superior quality. A single plant of Holt's Mammoth will yield more than a dozen of the common sort. Each 20c; 3 for 50c; dozen \$1.75.

GARDEN PLANTS AND ROOTS

Every garden should contain an assortment of these hardy plants and a few square feet will supply the family. Many persons now believe that if these well known old remedies were kept and used more in families in place of so many drugs and patent medicines it would be better for the health of the people. Orders for these plants must amount to at least twenty-five cents. We pay the postage.

LAVENDER.—A favorite plant with our grandmothers for perfuming wearing apparel, by distributing its sprays in the bureau drawers. Each 15c, 2 for 25c.

VARIEGATED MAMMOTH SAGE.—Beautifully variegated dark green and pure white color, which makes it a very ornamental plant; equal to Holt's in productiveness and flavor; new and scarce. 25c.

SPEARMINT.—This is commonly called Mint and thousands of dollars' worth of it is sold annually in New York, Boston and other cities for flavoring salads, garnishing meats, etc. Each 15c; 3 for 40c; doz. \$1.25.

THYME.—A well known plant which is used for sauces and flavoring. Each 15c; 3 for 40c.

TANSY.—Used largely for its tonic, stomachic and other medicinal qualities. Each 15c; 3 for 40c; doz. \$1.25.

TARRAGON.—The true tarragon is appreciated thoroughly by all who know of it, for the use of its aromatic leaves in seasoning salads, soups, pickles, etc., and also for tarragon vinegar. Each 25c; 3 for 60c; doz. \$2.00.

HOUSEWIFE HERB COLLECTION

3 bunches Chives, 1 Hop Vine, 2 Holt's Mammoth Sage, 2 Lavender, 1 Rosemary and 3 Spearmint; all postpaid for \$1.50.



TARRAGON



Well grown and lightly packed to carry a long distance. They can be shipped fresh, well packed at the beds, on a day's notice. All are strong, transplanted plants unless otherwise stated. Plants quoted "by mail" are sent at our expense; "by express" the purchaser is to pay the express charges. No charge either for packing or boxes. Plants from either hotbed or cold frame are ready during April or May; outdoor grown during June and until the middle of July. 500 sold at 1.000 rate. Large orders for more than 1,000 plants should be placed at least 30 days before shipping date.

EARLY CABBAGE.

Transplanted ready April 10.
Early Jersey Wakefield.
Washington Wakefield.
All-Head Early.
 By mail postpaid, 25 for 35c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.

If preferred we can furnish seedling plants, not transplanted, by mail postpaid, 25 for 25c, 100 75c. By express, not prepaid, 100 for 60c, 1,000 for \$5.00.

LATE CABBAGE.

Ready May 15; field grown after June 15.

Premium Flat Dutch.
Short Stem Drumhead.
Danish Ball Head.

By mail postpaid, 25 for 25c, 100 for 75c. By express, not prepaid, 100 for 60c, 1,000 for \$5.00.

CELERY.

Transplanted ready May 1.
White Plume. Giant Pascal.
Golden Self Blanching.
 By mail postpaid, doz. 20c, 100 for \$1.00. By express, not prepaid, 100 for 85c, 1,000 for \$7.50.

After June 15 we can furnish outdoor plants, not transplanted, by express, not prepaid, 100 for 60c, 1,000 for \$5.00.

CAULIFLOWER.

Transplanted ready April 15.
Henderson's Snowball.
 By mail postpaid, doz. 25c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$10.00.

EGG PLANT.

Hotbed grown ready May 1.
New York Improved.
 By mail postpaid, doz. 35c, 100 for \$1.50. By express, not prepaid, 100 for \$1.25, 1,000 for \$12.50.

GROUND CHERRY.

Transplanted ready May 1.
Improved Yellow.
 By mail postpaid, doz. 25c, 100 for \$1.25. By express, not prepaid, 100 for \$1.00, 1,000 for \$8.00.

VEGETABLE PLANT COLLECTION

JUST ENOUGH FOR THE HOME GARDEN
 READY FOR MAILING MAY 1st.

It often happens that you would prefer to buy a few vegetable plants rather than bother with growing from seed. We appreciate this fact and offer you the following collection as a veritable bargain:

12 Tomatoes, 25 Early Cabbage, 6 Pepper, 6 Egg Plant, 25 Celery, 50 Sweet Potatoes. All by mail, postpaid, for \$1.25.

ASPARAGUS ROOTS

When once set, a bed will last many years. Our roots are strong and healthy. We recommend the one-year-old roots as more desirable for general planting than the two-year-old, as well as cheaper. Ask for circular giving directions for planting.

CONOVER'S COLOSSAL.—One year plants.—Per doz. '30, 100 for \$1.50, postpaid. By express or freight, not prepaid, 100 for \$1.25, 1,000 for \$10.00.

Two year plants.—Per doz. 50c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$2.00, 1,000 for \$15.00.

PALMETTO.—One year plants.—Per doz. 30c, 100 for \$1.00, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$6.00.

Two year plants.—Per doz. 55c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$2.00, 1,000 for \$15.00.

BONVALLET'S GIANT.—Per doz. 30c, 100 for \$1.10, postpaid. By express or freight, not prepaid, 100 for 75c, 1,000 for \$6.00.

Two year plants.—Per doz. 55c, 100 for \$2.50, postpaid. By express or freight, not prepaid, 100 for \$2.00, 1,000 for \$15.00.

Rhubarb Roots

Everyone realizes the value of rhubarb or pie plant in the home garden. The best way to get a start is to purchase a few roots, as you can save one year's time in this way. The roots we offer are not seedlings but large divided plants. Plant in spring or fall, setting plants 3 feet apart each way.

VICTORIA.—The standard for general use. Each 25c, 5 for \$1.00, dozen \$2.00, postpaid. By express, not prepaid, per doz. \$1.50.

IDEAL MAMMOTH.—The largest and best variety. See description in vegetable seed department. Strong roots 35c each, doz. \$3.00, postpaid. By express, not prepaid, per doz. \$2.50.



GARLIC ROOTS.

Horse Radish

HORSE RADISH SETS
 Grow it in your own garden and grate fresh. Plant the sets small end down in rows 3 feet apart, about 12 inches apart in the row. It does best in rich, loose soil set slanting and covered about two to three inches. Doz. 25c, 100 for \$1.50, postpaid. By express, per 100 \$1.25, 1,000 for \$10.00.

GARLIC

Species of onion propagated by dividing the bulbs into small pieces, planting each one separately. It is quite pungent and is used for flavoring soups, stews, etc. Per lb. 50c, postpaid. By exp., lb. 40c, 10 lbs. \$4.00.



FARM SEED DEPARTMENT

EXPERT PRODUCTION

EXPERT SUPERVISION

EXPERT SERVICE

THE SINCERE EFFORTS AND SPLENDID FACILITIES OF THE ENTIRE ESTABLISHMENT ARE AT YOUR SERVICE

We can help you if you will patronize our Farm Seed Department. We have the equipment necessary to grade up our Farm Seeds to the highest possible excellence. We can give you better stocks than you can get elsewhere. Every item offered in this list has been carefully grown to maintain purity. Every one has had expert treatment in our special machinery and appliances to make it better than when it came to us, and we do improve it. We have so much pride in our stocks that we are ready to be judged in any way you see fit. We will mail free samples of any item for inspection. We will ship you seed with the understanding that it must be satisfactory or it may be returned to us within fifteen days and the money paid for it will be refunded. You can inspect it and test it yourself. You can have it inspected and tested by any authority and we will cheerfully abide by the report. You know we could not afford to make such an offer if we were not sure of our ground.

Let us help you improve your crops, both in quality and quantity

We put time and money and painstaking care into the farm seed line. We have to. We must supply better seeds than you can get elsewhere if we are to have your trade. The present-day farmer raises good grains and if we are to surpass him in quality, we have to keep wide awake and progressive. If our grass seeds are to excel in purity and vitality, it requires the closest scrutiny in buying and cleaning. We ask your trade solely upon our ability to please you.

PRICES named in this department are always subject to important market changes. All quotations are net and are not subject to any premium or discount. Clover and grass seeds are constantly varying in value, and we issue a red ink price list daily during the busy season. Please write for quotations. sending list of requirements when in need. Orders sent us will be given benefit of lowest prices on day order is received. Will take pleasure in mailing samples and quoting inside prices at any time on large orders.

SHIPPING.—In this department everything that is quoted by the packet or pound is sent by mail, postpaid; all larger quantities, unless noted, are sent by express or freight at the expense of the purchaser. Prices named include bags and delivering to depot here.

ABOUT WARRANTING.—We thoroughly test all our seeds and nothing is sent out which we do not believe to be good in every respect. However, we give no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned, and the money paid for same will be refunded. We know of no responsible seed firm in the world which guarantees seeds any further than this. Compare with other seed catalogues and you will find we are right.

OUR ORGANIZATION

M. Kurtzweil, President.
E. T. Pierce, Vice-President
Geo. L. Kurtzweil, Secretary
J. N. Albright, Treasurer
C. W. Davison, Director

Mr. Kurtzweil, the president of our company, began service with the business in 1885 and in the same year Mr. Pierce, the vice-president, also began work with the house. Mr. Albright, the treasurer, has labored since 1891, and Mr. Geo. L. Kurtzweil, the secretary, began his business career as errand boy in the office twenty-five years ago. Mr. C. W. Davison, who takes a place on the directory board, has been superintendent of our greenhouse plant for eleven years and has grown thoroughly familiar with the policies of the house. The heads of departments remain as before the war began, and with such an organization we are in position to render expert service in all branches of the business. The seed business is one which requires great technical knowledge and our customers may be assured that their favors will receive at all times the close attention to detail and the full benefit of the experience gained in the long period of successful conduct under the present management.



OUR EQUIPMENT

The shipping warehouse has side track capacity for seven cars at once, and loading stations for five wagons at the same time. It houses all our machinery. We have several large clipper mills, equipped with hundreds of sieves for close cleaning of grass seeds and grain. We have a special grading machine which operates on gravity principle, and separates grain perfectly. There is a scarifying machine of the Hughes pattern for treating sweet clover and other hard seeds. We have a special system for sorting and preparing seed corn and a Hess grain drier to help perfect the germ of unripened grains. We have a battery of hand sorting machines for use where ordinary methods will not cover separating requirements. We are equipped in the best possible manner to improve the quality of our stocks and it is this service we sell.



RETAIL STORE AND OFFICE
209-211 WALNUT STREET.



WAREHOUSE, 208-210-212 SOUTH EIGHTH ST.,
WHERE ORDERS FOR FARM SEEDS ARE FILLED.

WE MAKE NO CHARGE FOR BAGS. THEY ARE FURNISHED FREE WITH SEED PURCHASES AT OUR CATALOGUE PRICES

SEED POTATOES

The Proof of the Potato is in the Eating

Prices on Potatoes frequently change with the market
See Red Ink Price List accompanying this Catalogue.



ROSE OF THE NORTH

An improvement on the old Early Rose which has been grown on the virgin soil of the far north. It is very early, being only a trifle later than the Early Ohio and much larger. Is smooth and of handsome rose color. Quality superb, either baked or boiled, and yields immensely. It is rapidly gaining the place long held by the old Early Rose. Pk. 80c, bu. \$2.75.

It is of greatest advantage to potato growers to purchase their seed of us. By using our northern grown stock you are assured of **early maturity, increased yield and vigorous growth.** There is no longer any doubt that seed potatoes from the Red River Valley surpass those from any other section of the country with the possible exception of the state of Maine. We have for a number of years had our supplies grown in the northern part of Minnesota and Dakota and the comparative tests have each season shown an advantage for the northern seed. This is especially true of the early varieties. They mature earlier, are free from disease and produce more abundantly than home grown stocks. Prices on potatoes fluctuate greatly, but good seed potatoes are always worth more than ordinary table stock. This part of the catalogue is printed in November. We cannot fix price so far in advance of the selling season, hence we only quote in smaller quantities. If you want a large lot consult the red ink price list of farm seeds which is dated the day it is mailed with this catalogue. Should you not send your order until a change in price has occurred we will notify you upon receipt of your order and hold it until we can hear from you. If the order comes too late in the season for correspondence we will send the full value of the money received.

A PLANET JR. NO. 8
HORSEHOE is the best
machining for cultivating
the potatoes. You can do
all the work but the plant-
ing with this tool, and do
it with ease and satisfac-
tion. : : :



FANCY NORTHERN GROWN EXTRA EARLY OHIO (Grown in Red River Valley)

EXTRA EARLY OHIO—Fancy Northern Grown Stock

We have these grown about 400 miles north of Des Moines, and careful tests have proved them fully ten days earlier than Iowa grown. This is a great advantage and makes this the most popular of all. They are all of good, average size, strictly pure, smooth and free from scab or rot. Is an especially favorite with marketmen, and the most profitable they can grow. Sprout is very strong and vines grow erect, making it easy to cultivate, and on account of early maturity you get the highest market prices. Will keep firm till late in the spring. Frequently sold under the name Early Six Weeks. Desirable for late planting as they keep well for winter. Pk. 80c, bu. \$2.75.

"Professor O. L. Fitch, specialist in vegetables, of the Extension Department at Ames, says: 'All northern Iowa should buy each year from the best regions in Wisconsin and Minnesota enough seed potatoes to grow their seed for the next year. Practically all of southern Iowa should buy all their Early Ohio and Irish Cobbler seed in most seasons and all their Rurals in trying years. Our demonstrations show a gain by this practice of from 25 to 75 bushels per acre in one case at Sigourney.'"

EXTRA EARLY TRIUMPH

A popular first early variety. This is the round red potato which is generally in our markets as new potatoes early in spring. Most of our customers are no doubt familiar with the Early Triumph. The color is bright red; shape is almost spherical, and in size they are about equal to the Early Ohio. They ripen very quickly and are ready for the table as soon as large enough. Our stock is strictly pure. Pk. 90c, bu. \$3.00.

IRISH COBBLER

Has the form and color so popular in the market. Is prolific and profitable to the grower and has become a much prized variety. Matures as early as the Ohio, and is preferred because it is smooth and round in shape and of cream white color. The flesh is white and of fine quality and flavor. It is a strong, vigorous grower, with strong germ. Eyes well developed and slightly indented. Generally quoted at a premium in the summer markets because it is of economical shape, there being no waste in preparing for cooking. Pk. 90c, bu. \$3.00.



IRISH COBBLER



EXTRA EARLY TRIUMPH

SLUG SHOT IS CHEAP AND WILL KILL THE POTATO BUGS. BETTER ORDER SOME WHEN YOU ORDER YOUR POTATOES.

POTATOES--Continued

RURAL NEW YORKER

The Most Popular Main Crop Variety.

One of the largest yielding varieties in existence. Preferred by large buyers because it is large and unusually smooth, with few and shallow eyes, skin white as is also flesh, which is of good quality. Medium late and the best drought resister. There is no other potato of more handsome appearance than the Rural New Yorker. It is very hardy and will stand the heaviest manuring without getting scabby or spotted. For this reason it is one of the most desirable varieties for farmers and potato growers near large cities to grow for main crop for market. Under ordinary circumstances they will yield from 300 to 400 bushels per acre and by heavy manuring this yield can be almost doubled. Pk. 75c, bu. \$2.50. See red ink price list for quantity prices.

NORTHERN KING

A Main Crop Potato of Exceptional Quality.

Offered as the potato par excellence in quality. Has light red or pink color and oblong shape and is vigorous and prolific. It will outyield either Rural New Yorker or Burbank and because of extra vigor and vitality will make a crop under most trying conditions. It is quality that recommends this variety, the writer preferring them to all other kinds for winter use. The tubers average larger in size than most sorts, are smooth and of good shape, and they cook whole, either baked or boiled, without hard centers or becoming "soggy." For the family who wish to grow their own potatoes for the winter supply we believe the Northern King will prove the best variety to plant. Pk. 75c, bu. \$2.50. See red ink price list for quantity prices.



RURAL NEW YORKER

BURBANK

A Standard Long White Variety.

An old standard main crop variety which is very popular because of market demand and heavy yields. Satisfies both the grower and the consumer. Tubers are large, oblong and have fairly deep eyes. Color is white, quality excellent. Contends with the Rural New Yorker for first place. In our opinion no white potato excels the Burbank in quality, and some grown in sandy soils on new land often command a premium in city markets. Pk. 75c, bu. \$2.50. See red ink price list for quantity prices.



BURBANK POTATO

HYBRIDIZED POTATO SEED.—Potato seed from the flower boll (the true seed). It is from such seed that the choice new varieties of potatoes are originated. The result is interesting and often very profitable, and you are just as apt to obtain a choice new variety as a potato specialist. Pkt. 10c, 3 for 25c.

SEED SWEET POTATOES

PRICES SUBJECT TO CHANGE OF MARKET.

Thrive on any of the loam soils of the Middle West, and do specially well on sandy ground. They are so easily grown that there should be plenty at every home where a small plot of ground is available. A few hundred plants will supply all you need. One customer reports 20 tubers, weighing over twenty pounds, from a single hill, and a full bushel from three hills last year. We do not recommend that you buy sweet potatoes for a small family garden. Better buy plants unless you need a thousand or more. They are not expensive, ship without loss, and grow readily when transplanted. Plants are priced on page 36. It is not difficult to grow plants and if you desire information ask for our free circular, "How to Grow Sweet Potatoes." Keep them free from weeds and the ground mellow. After vines begin to run they will keep down the weeds.

Our seed sweet potatoes are grown, stored and handled especially for seed purposes. They are not cold storage stock on which the germ has been killed but are fresh and vigorous. It is absolutely necessary that they be handled quickly in spring as they do not keep well after being taken from the storage bins. We cannot guarantee them to be all sound upon arrival and for this reason we hold the potatoes and fill all orders at once so as to get them to you promptly. We usually ship from April 12th to 20th and notify customers when we start them.

EARLY YELLOW JERSEY.—In spite of the many so-called new varieties, all of which we have tested, Early Jersey holds first place. Earliest and most productive; of large, short, chunky shape and of the very best quality. 10 lbs. \$1.25, bushel basket \$3.00. Ask for prices in quantities.

NANCY HALL.—A variety originated in the south. Flesh is dark colored and cooks a bright orange. Splendid for baking and is extra sweet and full of sugar. 10 lbs. \$1.25; bushel basket \$3.00. Ask for prices in quantities.

By mail, postpaid, 35c per lb, 3 lbs. for \$1.00.

I received the sweet potato plants in very good condition. I did not believe you could send plants to Texas so fresh and nice.—Chas. Schubert, Lexington, Texas.



EARLY YELLOW JERSEY

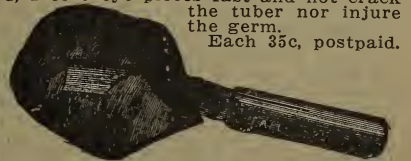


NORTHERN KING POTATO

CONCAVED AND CURVED SEED POTATO KNIFE

It is thin and of the right shape to cut 1, 2 or 3 eye pieces fast and not crack the tuber nor injure the germ.

Each 35c, postpaid.



CONCAVED AND CURVED POTATO KNIFE

It costs less than 75 cents
an acre to use our carefully
selected SEED CORN.

SEED CORN

Do you deem it wise to risk
doubtful corn when GOOD
SEED is so cheap?

GROWN, SELECTED, CURED, GRADED AND TESTED BY THE IOWA SEED COMPANY



SEED CORN FOR ALL DISTRICTS

Many authorities claim it is not wise to move corn more than fifty miles north of the point of production. The position may be accepted under certain conditions. We do not recommend that Reid's Dent or Profit corn be taken more than fifty miles north of Des Moines. The thermal lines, however, do not run exactly east and west but vary with the topography of the country. The same varieties will grow and ripen around Sioux City and in northeastern Nebraska as at Des Moines, while for northeastern Iowa and Wisconsin only the early varieties can be recommended. We have sold seed corn for many years and we know from experience that we can give you seed corn suitable for any locality. In our opinion it is more a matter of variety and type than of location. We give brief selection of varieties suited to the different corn districts north of Des Moines, and our recommendation is based on our thirty years' experience. The real corn belt does not extend more than two hundred miles north of Des Moines. Corn can only be grown beyond that point to the north of small flint types which are not suited to the real corn country. In making descriptions of the varieties we grow, we have endeavored to make plain the range where each may be safely planted, but if there is any question about any variety being suited to your planting, write us and we will advise you honestly and to the best of our ability. We have provided some northern grown seed corn for northern planters if it is desired.

The corn crop in Iowa last fall was perhaps better than we have had for many years. It seemed to mature early and it has large size and good form as well as an abundant yield. The conditions for saving seed were very good and no doubt many farmers have saved from their own fields large quantities of what they consider good seed corn. We believe, however, we can give you better Seed Corn than you yourselves have. In the first place, we are offering pedigreed stocks which have many years selection back of them and because of this, we think they are superior to any corn grown in the ordinary field manner.

VARIETIES TO PLANT

In the Extreme North—Sanford's White Flint, Improved Yellow Flint, Pride of the North, Iowa Gold Mine.

Northern District—Pride of the North, Farmers' Reliance, Iowa Gold Mine, Lenoche's Homestead and the Flint varieties.

North Central District—Iowa Gold Mine, Iowa Silver Mine, Wenger's Gold Medal, Farmers' Reliance, Lenoche's Homestead and Flint varieties.

Central District—Profit, Iowa Silver Mine, Iowa Gold Mine, Farmers' Reliance, Wenger's Gold Medal, Reid's Yellow Dent, Lenoche's Homestead.

Southern District—All varieties.

ONE HUNDRED BUSHELS PER ACRE

If you do not raise one hundred bushels of corn per acre in a good season, you have not realized the full returns possible from your field. There are hundreds of verified records of even greater yields than this. It is really not a difficult thing to do. The first requirement is extra care of the soil. It must be strong and fertile if it is to produce one hundred bushels of mature corn per acre. The ordinary yield in Iowa is only about forty bushels and it would seem to the writer the farmer might well spend both time and money to increase the fertility of the soil to the point where production might and should be doubled. Even at the price of \$1.00 per bushel, an added yield such as indicated above would readily cover any extra cost incurred in the application of fertilizer or the careful plowing and preparation of the fields. With the latest improved methods of corn growing you can increase your soil fertility rather than decrease it, during the season you produce the corn crop. By the planting of Soy Beans and by hogging down certain of the fields the land is left even richer than in the spring when the corn was planted. Of course the seasons will have much to do with the results secured and again the use of good seed is necessary. Also intelligent cultivation is a requirement if we are to secure the greatest possible returns. If, however, you make the most of your opportunities and use such seed corn as we can offer, planting three grains to the hill, you should have 10,000 stalks to the acre and at least one ear to each stalk. Don't be satisfied with less.

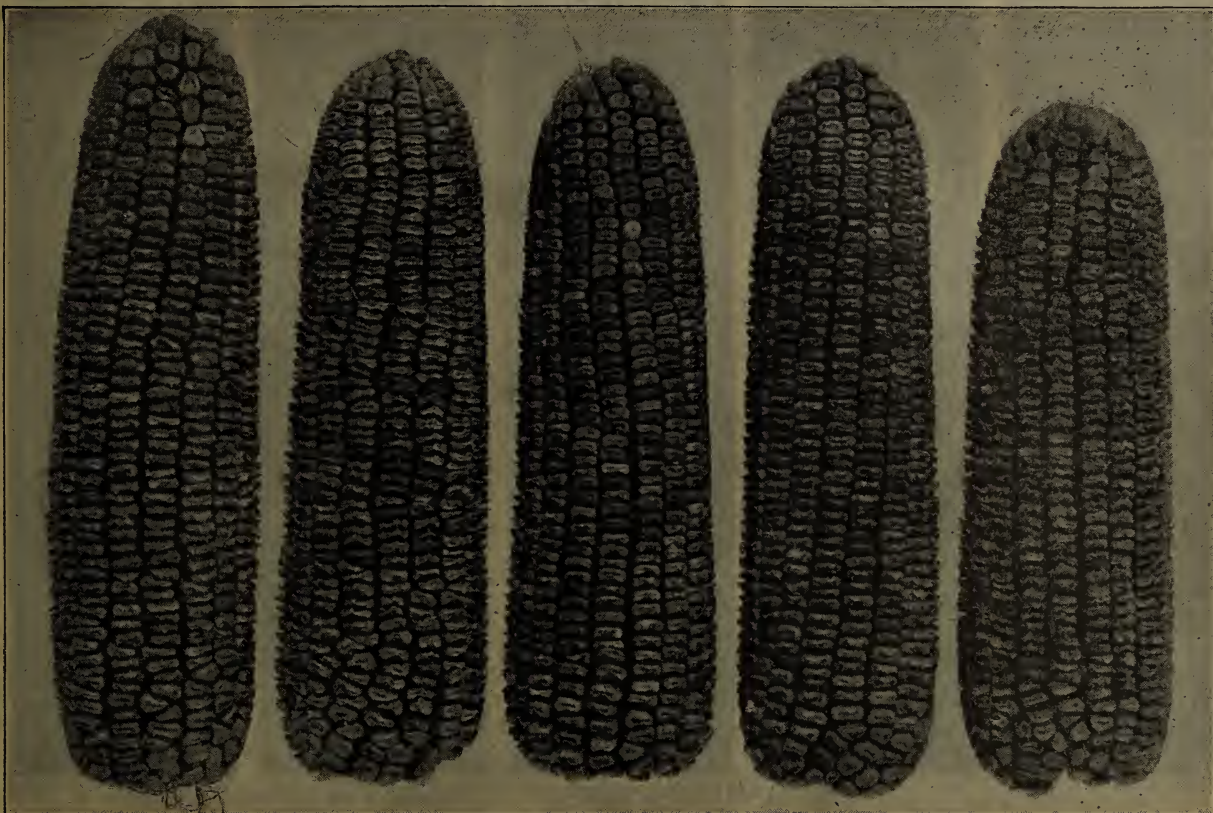
READ CAREFULLY THE DESCRIPTIONS OF THE DIFFERENT VARIETIES OF CORN OFFERED ON THE FOLLOWING PAGES

IOWA GOLD MINE

The Deepest Grained and Purest Yellow Extra Early Corn in Existence

The Variety that Made Us Famous. It Is the Greatest Feeding Crop for the Live Stock Raiser. and

Matures Anywhere in the Corn Belt



It is early, ripening in 95 days, and can be planted in the northern corn belt and compete successfully both in yield and maturity against corn from locally grown seed. Ears are not extra large, but of good size and symmetrical; color is a bright golden yellow, as handsome as a twenty-dollar gold coin just from the mint; grain is very deep, cob small and therefore dries out very quickly.

IT HAS THE COLOR

If you want to get top market prices for corn, just shell a carload of Iowa Gold Mine with a machine that will clean out broken cobs and trash, and you will have No. 1 yellow, something that very seldom appears in the big markets. It has color, it has depth of grain and it will have soundness necessary to pass the closest inspection. Gold Mine will ripen and produce good corn in any season, something that cannot be said of many of the large-eared varieties. Plant it, tend it and study it and we have confidence to believe that you will agree with us that Iowa Gold Mine is the very best variety of corn for the farmers of the central and northern corn belts.

IT HAS DEPTH OF GRAIN

Seventy pounds of ear corn makes 62 or 63 pounds of shelled corn, and in hauling to market it weighs out five bushels more to the wagonload than common varieties in the same size wagon. We have shelled selected ears of this variety which produced 64 pounds of shelled corn and only 8 pounds of cob to the bushel. This is an unparalleled record. It cannot be equalled by any other corn in the world. One carload lot of 400 bushels of Iowa Gold Mine corn was carefully weighed, and after shelling it was reweighed and there was just 456 bushels. Just think of it—a gain of 14 bushels to the 100.

We do not recommend this as a corn to haul to market at ordinary prices. If you sell it either demand an advance over market price or sell on the basis of shelled bushels.

Twenty-eight years ago we first secured this variety. We debated a long time about undertaking to push the sale of seed corn. In those days it was difficult to persuade a farmer to buy seed corn. However, the appearance of this corn was so attractive, of such beautiful color, and so fine in depth and quality of the grain, that it was finally decided in conference to offer free samples by means of paid advertisements. We had faith that this corn would sell itself if only the farmers could see it, and that faith has been fully verified. From the day the first sample was mailed until now this corn has only to be seen to be desired. We still follow our old-time method and if you are interested in seed corn we will send a small sample of Iowa Gold Mine for inspection, because we know from experience that it sells on sight.

By reason of our method of introduction the Iowa Gold Mine became more widely disseminated and better known than any other variety of corn. It is sold and planted all over the world where corn is grown. It is listed by dealers in every state in the Union and in Central Europe, South Africa, Australia—everywhere that corn is planted.

PRICES Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values and ask for price in quantity.

We are the original introducers of Iowa Silver Mine, Iowa Gold Mine and Farmers' Reliance, and if you want pure, thoroughbred seed of these varieties it must be purchased of us. We have proof that some other dealers are copying our descriptions and selling common corn under these names. The cost of our pure seed is only about 75 cents per acre. One bushel per acre added to your crop will pay for the seed used.

SEED FOR ONE ACRE OF ANY OF OUR CHOICE VARIETIES FOR \$1.00. ONE BUSHEL ADDED TO YIELD PAYS COST OF SEED.

THE PROFIT CORN

Our Oldest Thoroughbred Corn. More than Thirty Years of Pedigree

The Ideal Variety for a Heavy Yield. It Grows a Large Ear Well Up on a Large Stalk, and Produces an Immense Amount of Feed Per Acre.



Our Profit Corn is our favorite main crop variety. It will produce one hundred bushels of ear corn per acre. It is not so early to mature as Gold Mine or Silver Mine and requires about 110 days to fully ripen. We do not recommend it for planting in the extreme northern districts of Iowa, if a crop of grain is wanted or if the corn is to be sold in the ear. We do, however, recommend it in those districts for fodder or silage purposes. It is a very strong, vigorous grower and produces very large, heavy ears on large stalks. The ears contain from sixteen to twenty rows of grains and these are broad and symmetrical in shape. The color is beautiful, deep golden yellow and no other corn is so fine in appearance when shelled, with the possible exception of our Iowa Gold Mine.

WE RECOMMEND IT FOR A GENERAL CORN

It is recommended for the two central and southern districts in Iowa and in corresponding latitudes and under favorable seasons, we think it will produce more bushels of shelled corn than any variety with which we are acquainted. It contains the largest amount of sugar and starch and matures a big crop. You can raise it profitably either for the market or for feeding purposes. We have grown this variety since 1886 and by careful selection

have improved it until it now is given the first place in our list and we believe it to be the best yellow corn now grown. Our object in breeding this variety has been to fix a type of field corn for profit, and profit in corn growing as we understand it means the largest crop of shelled corn, not cobs, matured in a reasonably short time and of the best quality.

PRICES

Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre), \$1.00 by mail or express prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values.

Corn for the silo does not necessarily have to be fully matured like it does if you are to crib it on the ear. If you are in the northern part of Iowa, or the Corn Belt, you can raise Profit Corn for silage, but we would not advise you to plant it expecting to crib it in the ordinary manner. It will mature, however, wherever Reid's Dent can be successfully grown, and we think it will yield more corn, and we know it will produce more stalk than that well known variety. If you have a shredder, or if you use corn for fodder in any way, you will find no variety as valuable as the Profit.

A FEW REPORTS ABOUT PROFIT

A prominent Polk County (Iowa) farmer says: "Profit Corn has outyielded every other variety on my place. Ears are large, extremely solid, and grain is deep."

A customer in Sullivan County, Mo., writes: "Your Profit Corn was very satisfactory this year, although I planted it quite late in the season."

A neighbor to the west of us, living in Guthrie County, Iowa, says of the Profit Corn: "I like it and shall plant entirely of it next season. It is solid and heavy and feels profitable while you are husking it. Matured better than any other corn, there being less loose or chaffy ears than with other varieties this season."

From over in Illinois comes the following report: "The Profit Corn I received from you last spring has the right name. It is the best corn for stock. It grows large and is solid and also contains a greater proportion of fat than any corn in our country."

Across the Missouri river, in Nebraska, the Profit has made friends. One of our customers reports: "Your Profit corn has proved a great drouth resister. Every stalk has a good ear, while other varieties of corn yielded but very little. If I had planted my fifty acres with Profit, I would be many dollars ahead on my crop."

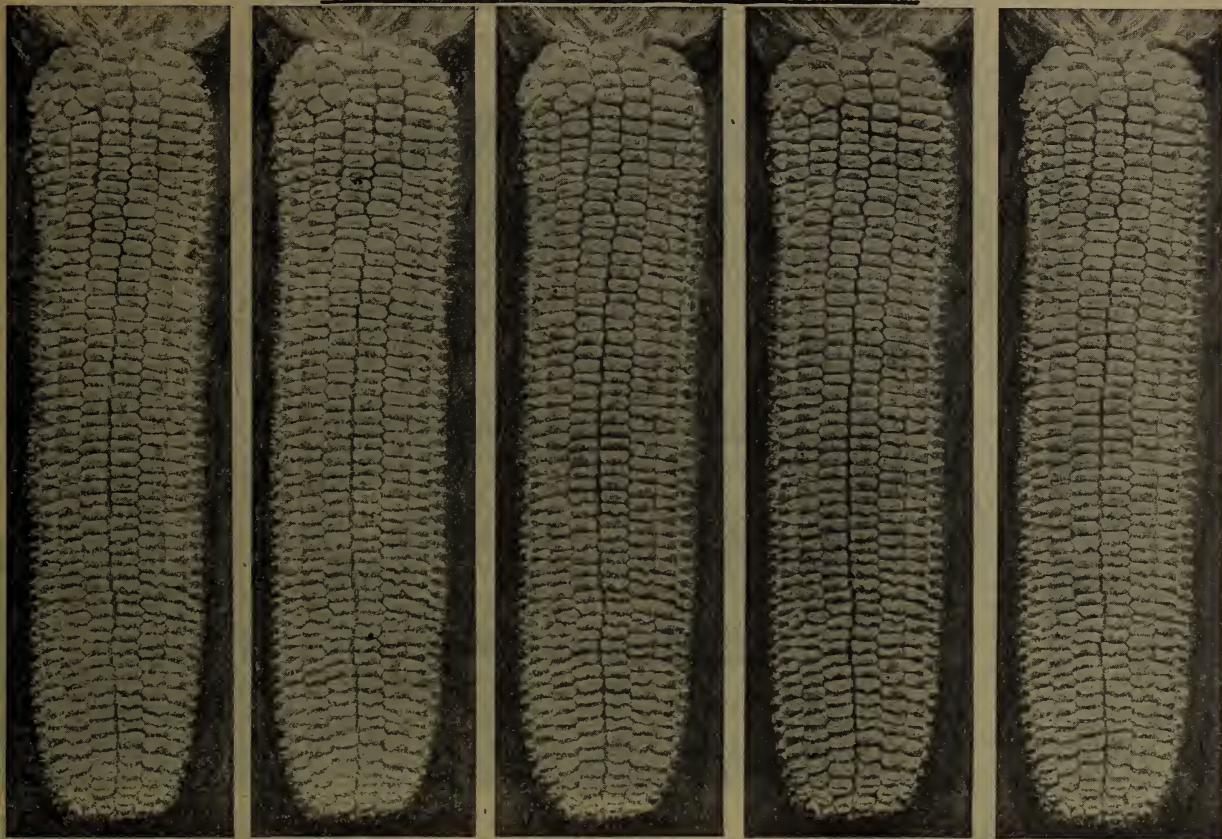
SEND ALL ORDERS TO THE IOWA SEED COMPANY, DES MOINES, IOWA. THEY WILL RECEIVE OUR CAREFUL ATTENTION.

IOWA SILVER MINE

The World Wide Favorite White Variety that Always Makes a Crop

Twenty-five Years of Careful Breeding Has Produced the Best White Corn

It Is Possible to Grow in any Part of the Corn Belt.



There is no variety of corn that will grow so well and so generally make a good crop under unfavorable conditions as will the Silver Mine. A change of location seems in no way to diminish the yield or impair quality of this variety when grown from our seed. We have sold it throughout the world, sending it to Egypt and Southern Africa, Australia, Central America and Mexico, to all parts of the United States and the East Indian Islands, and in every section it has produced good crops and proved its value.

So general is the distribution of this variety and so universal the success of the planters, that, without hesitation, we recommend the Iowa Silver Mine variety for all corn planters, except possibly the extreme north of the corn belt.

It is twenty-five years since we purchased the original stock of Iowa Silver Mine for the sum of \$1,000 in cash. Each year the stock has been carefully selected to maintain all its superior qualities, and isolating it to prevent mixture or taint from any other variety. Our stock is of the original, purchased by us in 1895 and bred continuously since that time under the personal direction of our seed experts, who have thirty years' experience as their guide.

There is a prejudice in the minds of some farmers against white corn. In the markets now, however, white corn sells at a premium, and if you want to obtain the very highest price for your corn, grow Iowa Silver Mine.

IT IS TRULY THOROUGHbred

The stalk grows to a height of about 7 or 8 feet and sets the ears about 3½ or 4 feet from the ground, just the right height for easy picking. One peculiarity which will be noticed in going over the fields is that there are no barren stalks; every one has an ear, many stalks have two or three good ears, and the originator says that has been characteristic every year that he has grown it. Type is very even. Ears measuring from 10 to 12 inches in length, and weighing 1½ pounds, are often found. The ears are very uniform in size and shape, with sixteen to twenty straight rows (usually eighteen rows) of deep, pure white kernels, set on small, white cob, and ears are well filled out over the tips. It is early, maturing in ninety-five days. The cob dries rapidly, so that it is ready for market earlier than any other large white field corn. Seventy pounds in the ear will make sixty-two shelled. It is adapted to a wider range of soil and climate than any other corn offered.

HERE IS A PART OF ITS RECORD

Everywhere the Iowa Silver Mine captures the prizes over all other varieties. At one fair ten of the largest ears took first prize, ten of the smaller ears took second prize. Afterwards the same ten large ears took sweepstakes over all varieties, both white and yellow, making a total of \$95.00 in prizes taken at one fair by twenty ears of the Iowa Silver Mine Corn. It captured the big prize offered by us in 1896, for the largest crop, against all other kinds of any color, yielding 215 bushels. At the Illinois State Fair it took first premium for the best bushel of corn, any color or sort; first for best white corn in the state, grand sweepstakes for best corn, any color, competition open to the world. In 1899, the Illinois State Agricultural Society offered three large prizes for the largest crop grown on one acre, and Iowa Silver Mine took all three with crops of 196, 176 and 154 bu. per acre.

Read the Astonishing Record of Our Own Prize Contest. It produced 215 bu. per acre in Scott Co., Iowa, the crop being actually inspected by a member of our firm. It yielded 211 bu. per acre in Indiana; 201 bu. in Arkansas; 178 bu. in Illinois; 145 bu. in Ohio; 137 bu. per acre in Texas.

PRICES

For high grade, select seed corn, by mail or express, prepaid: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values and write for price in quantity.

OUR STOCK OF SILVER MINE IS NOT ONLY PEDIGREED, BUT HAS BEEN REGENERATED TO INCREASE YIELD. SEE PAGD 48

WENGER'S GOLD MEDAL

A New Variety Offered for Main Crop Planting. Of Proven Excellence

Fifteen Years' Selective Breeding by an Iowa Seed Corn Specialist.

We Predict a Great Future for It Because of Past Performance.



A NEW SORT OF GREAT PROMISE

This new variety is the result of cross breeding made by Mr. S. B. Wenger of South English, Keokuk County, Iowa and which has been carried on and perfected during the last fifteen years. The foundation for the variety is Golden West crossed upon the Prosperity type of Reid's Dent. From this cross resulted a wider and somewhat rougher grain than the ordinary type of Reid's Dent and a much earlier maturing corn than this parent variety. In size it is as large as the ordinary Reid's but its principal value lies in its earliness to mature. It will ripen with the Iowa Silver Mine fully ten days in advance of the ordinary Reid's Dent and fifteen to twenty days in advance of the large show type of the Reid corn. In yield per acre, it will equal any of the varieties now grown and because of its earliness may be planted with safety as far north as the line of the Illinois Central Railroad in our state. The illustration on this page will show the type of the ear and you can get an idea as to the size of the same by comparison of the ears with a half bushel basket in which they are laid. In appearance it is a superior sort. The color is a clear deep yellow, the grain is smooth and without any chaffiness or defect of any kind. The cobs are uniformly red in color, of small size and dry out quickly. This is the feature no doubt which gives to the corn its greatest value and tends to early maturity, so that it may be depended upon to ripen.

SOME SHORT STATEMENTS ABOUT GOLD MINE.

From New York: "I bought some Iowa Gold Mine Corn of you, and it is the best corn I ever used in my life."

From Wisconsin: "The Iowa Gold Mine Corn is the best I ever saw, and it is well adapted to this climate."

From Colorado: "Your Iowa Gold Mine Corn was early and stood the drought remarkably well. I never made a better investment in my life."

From Illinois: "The Iowa Gold Mine Corn yielded three times as much as any other variety. Think it is the best corn I have ever seen."

From Ohio: "I purchased some Iowa Gold Mine Corn of you which did exceedingly well here. I took three premiums on it at three different county fairs."

From Missouri: "I think Iowa Gold Mine the best corn of all, and am perfectly satisfied with it."

From Kansas: "The Iowa Gold Mine Corn I got from you has done fine. It has been in ear two weeks ahead of any other field corn."

From Texas: "From your sample package of Iowa Gold Mine Corn I had just twenty-four stalks and there were sixty-four ears on them."

A FEW OPINIONS OF IOWA SILVER MINE.

From Arkansas: "The seeds purchased from you produced the finest yields ever seen in our country. The Iowa Silver Mine corn yielded 188 bushels per acre."

From Kansas: "I am especially pleased with the Iowa Silver Mine Corn, and it is worth five times the kind I have been growing."

A NEW THOROUGHbred VARIETY

The type is thoroughly fixed and it will produce a crop far more uniform than is generally the case and which is only to be found with corn of long pedigree and of careful handling. In offering this variety to the public, we believe we are helping the corn growers of the northern district to improve the quality and the yield of the corn in this part of our state. We have never believed that we could safely recommend Reid's Yellow Dent for profit north of the center of the state. This new corn can be carried seventy-five miles north of Des Moines, and in such locations we think it will give greater yields and sounder corn than any other large variety, with the possible exception of the Iowa Silver Mine. We are offering it as the best Yellow Corn for that section. Of course we were compelled to pay Mr. Wenger a premium for this corn but we are this year offering it as cheaply as our Standard varieties which we produce ourselves. We have, therefore, put a price upon this variety which should be very attractive because you can use it at a less cost than \$1.00 per acre for seed. This is a remarkable offer for a new variety of corn of such merit and breeding as the Wenger's Gold Medal.

PRICES: Pkt. 5c; lb. 25c; 3 lb. 60c; 7 lbs. (will plant one acre) \$1.00 by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.50; bu. \$5.00. See red ink price list for current values.

READ ABOUT OUR REGENERATED SEED CORN ON PAGE 48. WE OFFER THE BEST THAT CAN BE PRODUCED

REID'S YELLOW DENT

The Generally Popular Standard Variety in the Middle West

Thoroughbred, Pedigreed, Carefully Selected Stock. Our Superior Type. A Splendid Strain for Purity

The Reid's Dent Corn is perhaps the most generally grown and farmers generally better informed about it than any of the other varieties. It has been a principal sort at all corn shows for a number of years. Because of its show record it is widely known and generally distributed. It is very popular because of the large, smooth, symmetrical ears, which are always uniform, and it is one of the most attractive sorts for markets selling on the ear. Reid's Dent is not an early variety. It requires about 115 days to mature under favorable conditions and we do not, therefore, recommend it

for planting north of central Iowa. Sometimes it makes good crops in Minnesota, but it cannot be depended upon to ripen in short seasons in that latitude. It can be grown for silage or fodder uses and will be found of value.

Our particular strain is far superior to the common strains found on most farms. Our original stock was direct from Mr. Reid, introducer, and we have grown it continuously for years. We have bred it to retain the purity, type and heavy yield and at the same time we have looked to earliness because it is necessary to have as early type as may be procured and which does not sacrifice size and yield. Our seed is grown at Altoona. This particular point is one of the highest in altitude above sea level in our state. The soil is heavy black loam and our experience proves that seed corn produced in this locality will grow anywhere in Iowa. The soil conditions mature the corn more slowly than on lighter or sandier soil and it is because of this location that our seed corn will successfully grow far to the north of us and is superior in fact to most of the seed corn produced in other sections of the state.

If you can grow Reid's Dent, buy your seed from us. We will make good our claims of superiority by increased yield of splendid large corn at harvest time. There is no better strain anywhere and it is not only pure and of superior type but is a better yielding stock than is usually grown.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values.

LENOCHER'S HOMESTEAD

THE GREATEST RED CORN EVER PRODUCED

A Hundred Bushels Per Acre Variety

This is the corn that won the Iowa Homestead prize of \$100 for the best three acres of corn grown under ordinary methods. The crop produced yielded 345 bushels on the three acres on the farm of Mr. G. F. Lenoher, a practical farmer and feeder of Dallas County, Iowa. We made arrangements with Mr. Lenoher to introduce the corn to the public and gave it the name of Lenoher's Homestead, and have offered it for sixteen years. It is given as great care with us as our other sorts and our stock is carefully selected for seed purposes. The color is a rich, dark red with occasional light caps; grain deep and hackled; ear somewhat above the average with small cob which dries out rapidly so that it is not likely to be caught by frost. It is perfectly safe corn to plant and may be grown anywhere that Iowa Silver Mine will mature. It will produce good crops in unfavorable seasons when other corns will hardly make nubbins. Don't let your prejudice against red corn prevent a trial of this splendid corn, for we give you our assurance that it will produce more actual corn per acre than the kind you are growing, and it makes just as good feed as any other sort. There is no prejudice on the part of the live stock or the silo against red corn, and if you plant Lenoher's Homestead the great yield per acre will overcome your prejudice.

PRICES: Pkt. 5c, lb. 25c, 3 lbs. 60c, 7 lbs. (will plant one acre) \$1.00, by mail or express, prepaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00. See red ink price list for current values.

THE COST OF SEED

We are offering seed corn to you this year at low price for quality. We have sold seed corn in times past at a lower price per bushel than our catalogue of this season, but the quality is far better than usual. We have had three successive good seasons for the production of seed corn and we have used them to best advantage so that our product is the very best we have been able to procure. We have no poor corn and we have no varieties which we do not thoroughly recommend for the conditions and latitude set forth in the book. Even if you are satisfied with the corn which you are now growing, we feel sure that among our different types you can find one of special value.

WRITE FOR SAMPLES

Our selections and recommendations are based upon normal weather and soil conditions, and the varieties named will give splendid returns in ordinary years. The extreme north district named on this page is intended to include South Dakota, Minnesota, Wisconsin and parts of the corn belt north of our Iowa line. The other districts are in accord with the division of Iowa as accepted by the Iowa Corn Growers' Association. In good seasons like 1918 most of the large sorts might be moved north 50 miles, but we recommend as stated, believing it better to be conservative rather than lead our friends to plant large late corn in unsuited sections.

WE CLAIM TO SUPPLY THE BEST SEED CORN. WE WILL MAKE GOOD THIS CLAIM AT HARVEST TIME.

FARMERS' RELIANCE

We Offer It as The Earliest Large Corn, and the Largest Extra Early Corn

A splendid market sort for the Northern Planter and specially useful if spring planting is delayed by backward weather.



This is one of our Standard sorts which we have offered for a number of years and which still has a place among the list of varieties because it has many valuable qualities and because it can be used in many cases to advantage. We recommend it to ripen in 95 days from time of planting and believe it will give good results throughout the extreme northern district of Iowa and in southern Minnesota, Wisconsin and South Dakota. Of course it can be produced anywhere in Iowa successfully and as an extra early corn for any purpose, we recommend it without reserve. This corn originated in Central Iowa about forty miles east of Des Moines and was the result of scientific crossing of varieties by a practical seed corn grower. This crossing and selection was followed for many years before the corn was introduced to the public. It was given to us by the originator and we have continued to produce it ever since, making careful selection each season of the seed to be planted so that the type might become fixed and the corn increased in value with each season. The stalks usually have from nine to eleven blades only while most of the ordinary varieties have thirteen blades. It is strong and vigorous in manner of growth and seems to grow in size more rapidly than other varieties from the day it is planted. The leaves are broad and dark emerald green color with strong sturdy, healthy stalks and it shows extreme vigor throughout the period of its growth. It has been planted here in our section as late as June 26th and produced a splendid crop. In a good season it will mature in ninety days. The photograph shown on this page gives an idea of the type of this variety and you can also get some knowledge of the size of the ears from the picture. Not only will it be found desirable for the northern corn belt because of its earliness but if for any reason planting is delayed in early spring, this corn can be used to advantage as your insurance against non-maturity. The grain is of dark orange yellow and is solid and substantial containing a large proportion of starch making it valuable as a feeding sort. It has a red cob, small in size and which will not, under normal conditions, weigh more than ten pounds in a

bushel of ears. In the production of our pedigreed seed, we have for years been selecting stalks for seed, which bear ears about three feet and one-half from the ground and this has a tendency to keep it early and make it easy to harvest. It is very prolific. A great number, sometimes as many as forty per cent of the total stalks, will produce two good ears each. It is truly a corn for the farmer to rely upon because it will make a crop in good or bad years and we have never yet had it fail.

PRICES: Pkt. 5c; lb. 25c, 3 lbs. 60c; 7 lbs. (will plant one acre) \$1.00 by mail or express prepaid. By express or freight not prepaid, pk. \$1.50; bu. \$5.00. See red ink list for current values.

CHANGE YOUR SEED CORN THIS YEAR

If by any reason you are not satisfied with the kind of corn now growing on your farm, we urge you to send us your orders this spring because we can give you such seed as will produce wonderful crops and be a foundation for the future production of splendid corn in the coming years. The quality which we offer this season is so superior that if there is the least question in your mind whether or not you are getting all the returns that you should, we recommend that you buy of us because we are certain you will be pleased with the results at harvest time.

There is needed a number of varieties for the different uses for which corn is now produced. For the silo, you want an entirely different type of corn from that which is to be hogged down in the fall. For best returns from market sales, you can select other varieties which will be found most profitable. Again if you sell corn on the ear, one type will prove more profitable than another because of the difference in the size and weight of the cobs contained therein. So, we may, conclude that there is a use and need for all of the varieties we list and we ask you to give the descriptions careful reading and give us your orders for such as can be used to advantage on your farm.

WE RECEIVE HUNDREDS OF REPORTS FROM OUR CUSTOMERS EACH YEAR SHOWING THE ADVANTAGE OF OUR SEED CORN

PRIDE OF THE NORTH

The Earliest Variety of Yellow Dent Corn

It has deep grain, fine color and is of the best quality. Will mature sound and dry in ninety days.

A splendid sort for the feeder.



In spite of the many varieties of extra early corn which have been produced in the northern part of the corn belt and conceding that much improvement has been made in the corn produced in the north and also conceding that the corn belt has been extended beyond former limits by the introduction of the Extra Early varieties, we are still of the opinion that the Pride of the North is the best extra early corn especially for those farmers who feed the corn upon their own farms. The Pride of the North will produce a crop wherever the Dent corn can be grown successfully. It will mature in ninety days in an ordinary season and will be sound and dry and fit to crib. The cob is extremely small and dries out quickly and no doubt this is the feature which makes for earliness in this variety. The grains are deep, somewhat rough but contain much oil and sugar and are really superior to ordinary corn in feeding value. It is not perhaps so desirable for market on the ear as some of the smoother, later types but in actual pounds of shelled corn produced, we think the Pride of the North will surpass any of the sorts raised in the extreme northern part of the corn belt. Its uses in the corn district of central Iowa and south are many. If planted by the tenth of May, the ordinary planting time, it is ready for use by the middle of August and the stock can be turned in upon it at that time or it can be cut and fed in the feed lot. Many of our farmer friends will appreciate the fact that this is the season when the pastures are low and the grass dried up. With a good supply of Pride of the North Corn to be fed at this time the shortage of grass or pasture will not be noticed and the stock will thrive in spite of drought. Floods and storms frequently destroy the first planting of corn and make it impossible to replant promptly. The Pride of the North will make a crop planted as late as July first in Central Iowa in a good year and it was therefore of great

value where calamity overtakes the principal planting in May. It has been demonstrated to the satisfaction of the writer that there is no other corn with the exception of possibly the Iowa Gold Mine which equals in feed value pound for pound the Pride of the North, and when its extreme earliness and quick maturity are considered, we recommend that every farmer use Pride of the North in the manner that will give him best results. There is a place for it on every farm no matter where situated in the corn belt and we believe that every planter of it will be pleased with it and find it profitable to use. The ordinary grower of corn looks with disfavor upon Pride of the North because the ears are not large and it is not so easy to husk nor does it fill the wagon box so quickly, but the farmer of the present is fast coming to understand that a large portion of the corn produced upon the farm should be harvested by the live stock and thus save the cost of the husking. This economy is sure to grow in favor and become more general as the years go by because the cost of harvesting the corn crop at present has grown to be a matter of important consideration. If any part of your corn crop is to be fed in the field, you can surely use some Pride of the North to advantage in this way because it will be available thirty days sooner than the larger sorts and will give you as much returns per acre as the large kinds, it can be planted more closely and we recommend three grains per hill or a bushel to six acres of ground. Such planting will in the opinion of the writer give the greatest returns and be most profitable if the live stock are to harvest the crop.

PRICES : Pkt. 5c; 1b. 25c; 3 lbs. 60c; 7 lbs. (will plant one acre) \$1.00 by mail or express, prepaid. By express or freight not prepaid, pk. \$1.50; bu. \$5.00. See red ink list for current values.

READ ABOUT REGENERATED SEED CORN ON NEXT PAGE. IT EXPLAINS WHY OUR SEED CORN IS SUPERIOR TO OTHERS

EIGHTY DAY FLINT CORNS

Ready for Use a Month Earlier Than Ordinary Varieties

The great value of the Flint varieties of corn is in the production of early feed for live stock. The matured grain is hard and cattle cannot manage it very well but the pigs will thrive upon it as well as upon the dent variety. However, the best use for these is the production of quick food for your stock, because it is sufficiently matured for feeding far in advance of the dent varieties.

SANFORD'S EARLY WHITE FLINT

This standard variety is considered the best flint corn on the market. The ears are of unusual length, 12 to 15 inches, and handsome shape, flinty white color. Plants of sturdy, vigorous growth; leaves are very broad and succulent, and it is therefore of great value for fodder and ensilage, as well as for a grain crop. Stalks usually bear two or three long ears. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. \$1.50, bu. \$5.00, 2 bu. or more at \$4.85 per bu.

IMPROVED YELLOW FLINT

An eight-rowed yellow flint variety with ears from 10 to 15 inches long, 1½ to 2½ inches in diameter, and well filled out to the extreme end of cob. The cob is small and the kernel large and broad; ripens in 75 to 85 days. Excellent for ensilage and is often used here for replanting. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, pk. \$1.50, bu. \$4.50, 2 bu. or more at \$4.40 per bu.

EVERGREEN SWEET FODDER CORN

Superior to Field Corn in Feeding Value



EVERGREEN FODDER CORN

The past few years seed sweet corn has been so scarce and high in price that we did not urge our customers to plant it, but last year we grew a splendid crop, both in quality and quantity, and are therefore enabled to offer it at a low price. Our seed is from pedigree stocks selected for sugar content, and is far superior to ordinary sweet corn sold for fodder purposes. It is worth double the value for feeding. We consider it one of the most valuable fodder plants in existence, and stock farmers should all devote some land to it. The stalks are sweet, juicy, rich, tender and very nutritious. On a strong soil it will grow 10 to 12 feet high and produce almost an incredible amount of fodder, which when well cured is equal to hay, besides being cheaper. It is claimed by dairy farmers this fodder will increase the milk and cream production greatly and keep the animals in the best condition. It has the further merit of being so sweet and palatable that cattle eat every part of the stalk and leaves. As a green fodder for cutting in the summer, one acre is worth eight acres of ordinary pasture. Of high value also for "hogging down" in the fall. Plant thick in drills, using a peck of seed per acre; or broadcast at rate of 2 bu. per acre. By freight or express, not prepaid, pk. \$1.50, bu. (50 lbs.) \$5.00, 2 bu. or more at \$4.85 per bu.

Cut Evergreen Sweet Fodder Corn in roasting ear stage for pigs and milk cows.



IMPROVED YELLOW FLINT CORN

EXPERIMENT CORN COLLECTION

For the benefit of those of our customers who would like to compare our varieties of corn in a practical way, we offer a collection composed of 1 lb. each of the following seven varieties. Wenger's Gold Medal, Iowa Silver Mine, Iowa Gold Mine, Reid's Yellow Dent, Lenoher's Homestead, Farmers' Reliance and Profit, not prepaid, for \$1.00; or, if you want them prepaid, send postage, see page 13.

REGENERATED SEED CORN

Ordinary selection of corn if carried on carefully for a period of years undoubtedly results in improvement and increasing yields but in the production of seed corn we have gone beyond this method and have instituted what we call Regeneration by the ear to row method of breeding. The manner of securing the results desired are as follows: We select from the harvested crop two hundred ears of the best type and appearance choosing them for those characteristics which are distinctive in the variety. For the Silver Mine, we select the broad deep grain slightly roughened, white cob and a large ear. From each of the two hundred ears selected as above, we shell two rows of grain and these grains are each planted in a row of the field and numbered so that the product of each ear may be, and is, carefully weighed; and the yield and character of the product determined in the fall. The next year the remaining part of the two hundred ears are planted but only those which have proven best in the resulting crop are used at this second planting. The second planting is harvested in the fall and results are again noted and from the crop is selected three or four or five bushels of seed as may be required for the following spring. The third planting is

made in the open field and from this is produced a crop of what we call Regenerated Seed Corn. You can readily understand that by this method we shall increase the yield per acre by discarding those ears and that corn which will not reproduce in sufficient quantity. We have already treated several varieties and offer you not only pedigreed stocks but stocks which have been regenerated and which will increase the returns. We think you will agree therefore that with all the labor and time expended, we are offering you better seed corn than you can buy in other markets. Again we wish to urge the purchase of our corn because we know that we are in position to supply such seed as will give you satisfaction in crop harvested. It is surprising to note the great difference in yield from individual ears. The beauty and symmetry of an ear gives no indication of its value for breeding purposes. It is only by selection as made in ear to row tests that the really valuable ears can be determined. This is not a selection which can be made in one year, nor can the average farmer spend the time required in growing and recording for the period required (three years). You can well afford to patronize us to improve your yields when we have devoted time and care in selecting stocks strictly for the production of heavy yield and quality corn.

GIVE US YOUR ORDERS FOR SEED CORN. WE WILL NOT DISAPPOINT YOU. IT IS THE YIELD AND QUALITY THAT COUNT



SELECT GRADE SEED WHEAT

We believe that wheat will continue a profitable crop. With increasing demand from Europe our thought is that all that can be grown will be wanted at better prices than other grain.

MARQUIS

Ten Days Earlier than Blue Stem or Red Fife and Produces Five to Ten More Bushels per Acre

This is the wheat that won the \$1,000 prize at the New York Agricultural Exhibition against all exhibitors, representing every wheat growing section of the western hemisphere. Superior to any known variety in milling and baking qualities. It has recorded a yield of fifty bushels per acre. It was originated at the Experiment Station at Ottawa, Canada, and introduced to the public in 1905. It is a favorite in Minnesota and the Dakotas, and we have found it the best beardless variety for Iowa planters. We grow our own stock in Iowa because we find that acclimated seed is better for our friends than stock secured from the North. We recommend it as the best beardless spring wheat for this latitude. Grows stiff, strong straw of medium height, has round, dark red kernels and matures two weeks earlier than the old standard blue stem types. Popular because free from beards and not so hard to handle at harvest. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.

MACARONI OR DURUM WHEAT

It will yield more bushels per acre than ordinary varieties. Our grower secured a yield of twenty - nine bushels per acre last summer and we recommend it as a profitable sort. It seems to be always a sure crop. It grows very strong and vigorous and gives a good return on poor land. The grains are hardy, glossy, often translucent, large and plump and really beautiful. It seems to be freer from smut or rust than ordinary varieties. Sow one and one-half bushels per acre.



MACARONI WHEAT



EARLY JAVA WHEAT

EARLY JAVA

The early bearded sort that is so prolific and gives best returns in the corn belt. This is a bearded variety which for ten or more years past has given far better satisfaction in central Iowa than any other bearded variety and wherever introduced it is driving other sorts out. The farmers are delighted with it. It is a variety of spring wheat, about ten days earlier than the Velvet Chaff or other standard sorts and thus escapes the extreme hot weather so injurious to small grain. It is usually ready for harvest as early as winter wheat, and therefore desirable to sow on land where winter wheat has partially failed. A good crop can this way be secured from fields which would otherwise be unprofitable. Per lb. 25c, 3 lbs 60c, postpaid. See red ink price list.



WINTER WHEAT

We issue a descriptive price list of winter wheat about August 1st. Write for it then.

IOWA 404.—This is a strain of Turkey Red variety developed at the Agricultural College at Ames, Iowa, and they offer it as the hardest and most prolific sort among the many which have been tested on the trial plots of the college farm.

RED CROSS.—The best beardless winter wheat for the corn belt. This variety is immensely popular with our patrons because of hardness, heavy yields and freedom from harsh beards. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

TURKISH RED.—The great standard winter variety so generally recommended by all authorities. Lb. 25c, 3 lbs. 60c, postpaid. Ask for prices in quantity.

DEFIANCE.—Our greatly improved strain of Turkish Red which has a record of over 59 bu. per acre in Iowa. Has never failed to produce a profitable crop.

ONE CUSTOMER GOT 35 BUSHELS PER ACRE FROM THIRTY ACRES OF WHEAT. IT WAS SURELY VERY PROFITABLE.



**Send for Free Samples
For Comparison**

If you want a large quantity of seed oats of any variety that we handle, write us for special prices.

IOWA GROWN SEED OATS

BUY IOWA GROWN SEED. THE BEST OATS IN THE WORLD ARE GROWN IN IOWA

We confine our offerings of oats to varieties which will give greatest yields, the best grain and yet meet the need of special requirements. For the farmer who wants to sow grass seeds with oats we recommend the White Kherson (Iowa 103) on ordinary soil or the Richland (Iowa 105) on strong soil. These do not make such rank growth of straw as other sorts and will not lodge under ordinary conditions. The young grass will not be destroyed when storms come that will beat down the larger kinds.

THE IOWAR OAT

Prof. Burnett's latest introduction at Ames College. The professor says it is three days later, three inches taller and yields three bushels per acre more than White Kherson (Iowa 103). It seems to the writer the best oat now offered. The grain is good size, thin hull and good color, so it is popular for market. We recommend it to our farmers as the best yet produced. See red ink price list for our current values.

WHITE KHERSON (Iowa 103)

A Production from Ames College

Bred by Prof. L. C. Burnett, agronomist at the Iowa Agricultural College, and introduced by us. Prof. Burnett gave it the designation of "Iowa 103" and we gave it a trade name as "White Kherson" because we believed that numbers might become confusing. It is without doubt the most popular variety in our state. It is very early, and while the grain is not very large, it is plump and heavy, with a thin hull. It seems to be free from blight or rust. The straw is strong and stands up well on good soil. When growing it would appear to be a rather shy yielder, but the results at threshing have been so surprising that the farmers have been delighted with the final outcome. Our seed is pedigreed stock grown continuously by us since first given us by Prof. Burnett, and it has always been given great care in seed selection and in grading. We know, therefore, that we have better stock than you can buy from ordinary sources. Per lb. 20c, 3 lbs. 50c, postpaid. See red ink price list for current prices.

THE RICHLAND OAT (Iowa 105)

The Best Variety For Rich, Strong Land

Another variety from the Agricultural College bred by Prof. L. C. Burnett and it was sent out as the best for strong, rich ground, where the ordinary varieties of oats would lodge or make excess growth of plant rather than large crops of grain. It does not grow very tall, but has stiff, strong straw and it will stand up under adverse conditions better than any other variety known. It is very early and produces wonderful crops and competes with the White Kherson in quantity produced. The grains are medium sized, light yellow in color, plump and heavy. Resembles the original Kherson oats in color and general habit, but is far superior to that sort in every way. See red ink price list for current values.

SILVER MINE

The Popular Main Crop Variety

Standard for main crop in Iowa. Has established a reputation of yielding immense crops of 100 bushels per acre in favorable years. Grain is large, plump and heavy with a reasonable thin hull. Quite hardy, vigorous, stands well and shows little tendency to rust or lodge unless soil is extra rich. Has splendid record in comparative tests at Iowa Agricultural College. Will bring top price in market. See red ink price list for values.

GREEN RUSSIAN

Well known, popular, standard sort. Grows large and strong, matures later than our other sorts but seldom fails to give splendid crops. See red ink list for current values.

SILVER MINE

WHITE KHERSON

OUR CUSTOMERS ARE AT NO EXTRA EXPENSE FOR BAGS TO HOLD SEED GRAIN AS THEY ARE FURNISHED FREE OF COST.



HIGH GRADE SEED BARLEY

MANDSCHEURI—Improved strain of standard six-row bearded barley. The standard market variety by which all are graded and therefore the most popular bearded sort. It is an early variety, very strong, stiff straw, stands up and stools well. It bears large well-filled heads of plump grain. Per lb. 25c, 3 lbs. 50c, postpaid. See red ink list.

ODERBRUCKER—First introduced into the United States from the Agricultural Experiment Station at Guelph, Ontario, Canada. Bred and disseminated at the Wisconsin Agricultural College by Prof. R. A. Moore, who claims it is the greatest barley in this country for feeding or malting purposes. It and Mandscheuri have held the record for many years for the heaviest yielding sorts. It is bearded, and in manner of growth similar to the Mandscheuri, but

the straw is somewhat stronger and stiffer, and will stand up on the richest ground. Will not rust and is free from smut. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink list.

SUCCESS BEARDLESS.—A very valuable variety. The earliest barley known. The straw is about the height of common barley and will stand up on any land; on good land will produce 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless and as easy to grow and handle as oats. It has hulls like the Mansury or any other old variety, and the quality is excellent, both for malting and feeding. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink list.

SPELT, OR EMMER

This new grain was first introduced into this country by our house several years ago, has proven of great value. The variety we offer is really white spring emmer, but it is so generally known as spelt that we offer it under that name. It has become a staple crop in all sections of the West and Northwest. It is grown and handled in the same manner as barley. It should be threshed for feeding as the process breaks up the beards and straw so that the animals eat readily. It is splendid feeding grain, in our opinion second to corn, and in dry or cold sections where corn will not mature Spelt will be the very best live stock feed that can be produced. It is in the cold and arid regions that it thrives best, and will yield wonderful crops under adverse conditions. Records of 75 to 100 bushels of grain and 3 to 5 tons of straw are reported from Kansas, Nebraska and the Dakotas. It can be used for pasturage and hay after the manner of rye. Its value lies in its hardness, great yields, and feeding value, and it can be grown anywhere in the corn belt with profit. Use 50 to 75 lbs. seed per acre. Per lb. 25c, 3 lbs. 60c, postpaid. See red ink price list for current values.

SEED RYE

MAMMOTH SPRING RYE.—This is quite different from the winter rye and is highly valued wherever known. It is not only more productive but the grain is of finer quality and it can be successfully grown in any latitude. The straw is of special value as it stands six or eight feet high, being better than that of winter rye and producing nearly four times as much straw as oats. Produces 30 to 40 bushels of grain to the acre. As it does not stool like winter rye, not less than two bushels to the acre should be sown. There is always a demand for first quality rye straw and the price is nearly always remunerative. Pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. See red ink price list.

MONSTER WINTER.—We consider Winter Rye one of the most important of all farm crops. It is usually sown in the fall. If sown early in the spring it makes an early and abundant pasture, but makes no grain crop. See red ink price list.



HEADS OF EMMER



BUCKWHEAT

Buckwheat is a valuable crop for those parts of the farm which always seem to be left unplanted at the close of the season. Generally sown in July and will fill up the vacant plots at a time when all other planting is past. Can be sown after crop of winter wheat or rye and make a second crop. Also largely used as a winter cover-crop in orchards and nurseries. Use about one-half bushel seed per acre. Prices change. See red ink price list.

JAPANESE.—A week earlier than Silver Hull and yields more. Flour is equal to any other buckwheat, while it is more productive than any other, and succeeds well far north. The kernels are quite large, but the straw is heavier and it branches more; need not be sown as thickly as other kinds. Per lb. 25c, 3 lbs. 60c, postpaid.

SILVER HULL.—Very good, popular variety. Grain is light gray color, rounder than the common variety, has a thinner husk earlier, yield more. It is preferred by the mills grinding buckwheat flour as it makes a smaller proportion of hull to flour than other sorts. Lb. 25c, 3 lbs. 60c, postpaid.

SEED FLAX

It will pay you to sow nice, pure, high-grade flax seed. It must be cleaned. Our seed is thoroughly re-cleaned, free from mustard or any other weed seed and is as good as can be purchased anywhere. Do not buy flax seed on open market. It is generally full of weed seed. One of the most



FLAX

profitable of crops especially on new land. Price subject to change. Per lb. 20c, 3 lbs. 50c, postpaid. Send for red ink price list.

BROOM CORN

EVERGREEN.—Largely grown in the western states. The brush is noted for fine quality, good length, and handsome appearance. Lb. 25c, 3 lbs. 65c, postpaid. Send for red ink price list for value on quantity.

DWARF.—Popular in some sections, matures late. Lb. 25c, 3 lbs. 65c, postpaid. Send for red ink price list for value on quantity.

CALIFORNIA GOLDEN.—Carefully selected and improved so that the brush is straight and long. Of fine quality, light green color, turning to light yellow when allowed to become too ripe. Per lb. 25c, 3 lbs. 65c, postpaid. See red ink price list for quantity value.

EVERGREEN
BROOM
CORN

VEGETABLE FARM CROPS

Many of our best and most profitable farm crops are listed in this catalogue among the vegetables, and we have thought best to call our farmer friends' attention to them at this point, for fear they might be overlooked or not appreciated because they did not appear in the Farm Department.

Mangel Beets (see p. 5).—Are of special value to the stock feeder and produce enormous crops.

Carrots (see p. 8).—Are another root crop producing heavy crops and recommended to horsemen and dairy farmers.

Pumpkins (see p. 28).—Two crops on one field if you plant them in the corn. Seems like there are never enough.

Onions (see pp. 20, 21).—Always salable at profitable prices, for they can be sent to market without loss or shrinkage.

Citron Melons (see p. 19).—Grown in dry sections, in preference to pumpkins for stock feed; are used in same way.



Pop Corn (see p. 11).—A field crop grown in hundreds of acres in northwest Iowa. A great market is now established for this product.

Parsnips (see p. 23).—A good farm crop, since they can be marketed either fall or spring and produce wonderfully.

Squash (see p. 29).—A profitable crop for the farmer near a market. Demand always good for the large late varieties.

Turnips and Ruta Bagas (see p. 32).—Recognized as the field crop of all others to occupy the waste spots and produce feed after the planting season for other crops is past.

SUNFLOWER

A small patch of cultivated sunflowers will produce a great quantity of the very best poultry feed for winter. Drill in rows, cut with a corn harvester, dry thoroughly and let the fowls do the threshing. Sunflowers for feeding purposes on page 126.

MAMMOTH RUSSIAN.—Extremely large sunflower. Large pkt. 5c, lb. 35c, 3 lbs. 90c, postpaid. By fruit or exp. not prepaid, 10 lbs. \$2.00; bu. (25 lbs.) \$5.00.

WHITE BEAUTY.—Equal in size to Mammoth Russian. Prices same as above.



SUNFLOWER

FORAGE AND FODDER CROPS



FETERITA

Similar to Milo Maize and Kaffir Corn in general habit. It matures earlier than either, however, and the grains are somewhat larger and softer. It is also said to be more prolific, yielding thirty to fifty bushels of grain per acre, and suitable for feeding most any kind of live stock. It is especially recommended in the semi-arid regions of the West, or upon poor soil where ordinary Indian Corn will not produce a profitable crop. The sorghums should be planted in the North about June 1st. They do not withstand the cold and dampness of early spring like Indian Corn, but are strictly hot weather plants. In good weather, however, they grow quite rapidly and can generally be depended upon to ripen a crop as far north as Central Iowa. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express, not prepaid, 10 lbs. 80c; 25 lbs. \$1.75. See red ink price list for prices in quantity.

TEOSINTE

Very prolific, heavy yielding fodder plant largely grown in some parts of the country. Resembles corn, but leaves are much longer and broader and stalks contain a sweet sap; 35 stalks have been grown from one seed, attaining a height of 11 ft. and thickly covered with leaves. Horses and cattle eat it as freely as young sugar corn. Plant as soon as ground is warm at usual corn planting time, in hills 3 to 4 ft. apart each way, two seeds to a hill. It has yielded 50 tons of fodder to the acre. Pkt. 5c; oz. 10c; ¼ lb. 50c; 1 lb. (for one acre) \$1.50, postpaid.



TEOSINTE

KAFFIR CORN

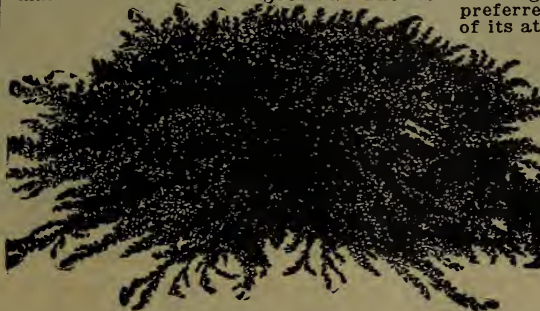
Grows five to six feet high straight, upright growth. The stalk bears numerous wide leaves; keeps brittle and juicy, making excellent fodder either green or dried. Seed crop is heavy, yielding 30 bushels per acre. There is no failure about it; can go without rain without any loss in yield.

It is generally cultivated in drilled rows about three and one-half feet apart. Cultivate one way. This is the method employed where a crop of grain is wanted and it produces better grain and larger quantity. In sowing broadcast it is treated in the same way as Cane and we recommend from fifty to one hundred pounds of seed per acre. The best method is to use a grain drill cross planting both ways. This gives a uniform heavy seeding and will produce an immense amount of fodder. Pkt. 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express not prepaid, 10 lbs. 75c; 25 lbs. \$1.75. See Red Ink price list for quantity values.

MILO MAIZE

Belongs to the same family as Feterita and Kaffir Corn and resembles them in manner and habit of growth. The color is light red and it is therefore much preferred by makers of mixed feeds because of its attractive appearance. It is also preferred by many growers who claim that it produces more grain per acre and better quality of forage than any of the others of this type.

The same methods are to be employed in its production as are recommended for Kaffir Corn above. All of these sorghums make a splendid silage either alone or cut with Indian Corn. Price per packet 5c; lb. 20c; 3 lbs. 50c, postpaid. By freight or express not prepaid, 10 lbs. 75c; 25 lbs. \$1.75. See Red Ink price list for quantity values.



AUSTRALIAN SALT BUSH

AUSTRALIAN SALT BUSH

A valuable plant for soils containing alkali and for all semi-arid or dry regions. It is not hardy in the North. When once started it will make a strong growth during hottest and driest weather. Spreading habit, branching freely, making thick mat of stems and foliage 12 to 18 inches over entire surface of the soil. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25, postpaid; 5 lbs. or more by express, not prepaid, at \$1.00 per lb.

PENCILARIA

Particularly a dry, hot weather plant. An improvement of the Pencilaria Spicata (Pearl Millet), and much better adapted to the north. Seeds very small, and when it first comes up looks like grass, but very soon resembles corn, growing rapidly and having broad, succulent leaves. It stools out wonderfully, customers reporting as high as 75 stalks grown from one seed. Grows 7 to 8 feet high and on good soil will produce 15 to 20 tons of green forage. It can be cut with corn binder and used for winter fodder like cane or Kaffir and the quality is excellent. Sow in May or June in drills 24 to 36 in. apart, using 2 lbs. seed per acre, or broadcast, 15 lbs. per acre. Pkt. 5c; ¼ lb. 15c; lb. 35c; 3 lbs. \$1.00, postpaid. By freight or express, not prepaid, lb. 25c; 5 lbs. \$1.00; 25 lbs. \$3.75.



PENCILARIA

YOU CANNOT APPRECIATE THE FULL VALUE OF THESE FORAGE CROPS UNLESS YOU YOURSELF PRODUCE AND USE THEM.

MAKES FINE QUALITY HAY

SUDAN GRASS

WONDERFULLY PRODUCTIVE**A MOST VALUABLE QUICK GROWING PLANT FOR AN ANNUAL HAY CROP**

Very highly recommended by the U. S. Department of Agriculture, who brought it to this country from the Egyptian Sudan in 1909. Each year adds to its popularity as it proves a splendid crop. We have no record of failure or disappointment to the planter.

Sudan Grass is wonderfully productive. One customer reports over six tons per acre from a single cutting from which he also saved a crop of seed worth \$100 per acre. This is probably the most profitable way to grow it, but our preference would be to produce two crops of hay from broadcast seeding, cutting the growth each time just when the seed heads are forming. We have produced it for several years on our farms. It makes such a magnificent crop of hay that we are urging our friends who need an annual hay crop to plant Sudan Grass, believing it

will produce more tonnage per acre than any other grass now grown. We know that it thrives in Iowa and from the short time required for maturity we believe it can be grown anywhere in the United States with satisfactory results.

We recommend Sudan Grass to take the place of the millets as a summer hay crop. This in our judgment is its most valued place in the agriculture of Iowa. It is especially valuable to the farmer who has no meadow of tame grasses. So much can be grown in such a short time that a small plot will cover the hay shortage. It will do as a substitute for sorghum for fodder or Kafir, Milo and Feterita as a forage plant, but we do not consider it as valuable in any other form as it is for hay. In quality it is far superior to the millets. It does not get "dusty," nor is it so "seedy" as millet hay, while it will yield much larger quantities per acre than any variety of millet.

A FIELD OF SUDAN GRASS

HOW TO GROW A CROP OF SUDAN GRASS FOR HAY

Sudan Grass belongs to the same family as the sorghums, and the Kafir corn, and like plants, but does not grow so coarse, while producing fully as much leaf growth in proportion to the crop. It grows to a height of seven or eight feet, and the stalks vary in size from that of a lead pencil to a half inch in diameter. It is not difficult to cure, and it is claimed by those who have fed it to live stock to contain a great amount of food value.

Owing to the great similarity of Sudan Grass and Johnson Grass, care has to be taken in the selection of the seed. Johnson Grass is a perennial—that is to say, when once established it is hard to get rid of, as the winters do not destroy it. We have not offered Johnson Grass for a number of years because of this fact, and because it was unpopular with our farmers. The Sudan Grass, however, being annual in its nature, does not survive the winter and is not obnoxious nor difficult to get rid of.

Sudan Grass may be planted in cultivated rows, in close drills, or broadcast. If in cultivated rows, we recommend they be made 36 inches apart, using about 3 lbs. of seed per acre. It stools wonderfully if given room; this planting will produce a tremendous crop. Sometimes as much as fifteen or twenty tons per acre is produced. In the dry regions this is the best planting process. Usually the crop can be cut twice during the summer, making a second growth from the roots when the first cutting is removed.

Where there is plenty of rainfall, it may be sown in drills 18 inches apart, using 6 lbs. per acre, or it may be sown broadcast, using 15 to 20 lbs. per acre. Either method makes a solid mass of hay, but in our judgment the broad-

cast method produces finer quality hay, although not so much tonnage.

By the broadcast method recommended we mean either seeding and harrowing, or using the grain drill as in sowing rye or other small grained cereals.

In the field tests at the Agronomy farm of the Iowa State College inspection showed heaviest yield by stopping every other tube in the grain drill, but where all the tubes were used the hay was of finer growth and we believe this the better plan.

As with millet and cane and other plants of similar nature, we believe in heavy seeding for Sudan Grass, because what is lacking in quantity is more than made up in quality, and if sown thickly as suggested in the last paragraph, live stock can consume the entire crop.

Because it belongs to the millet and sorghum family, it is not to be planted until the ground is thoroughly warm. Our recommendation is early June. In some seasons it might be started at corn planting time in May, but we believe as good results can be obtained by sowing after the corn has been planted, and is out of the way.

PRICES: Cost of seed is small, Iowa grown seed is more expensive to produce than in the south because of higher land values and labor scarcity. **Southern Grown Seed**—Per lb. 30c, 3 lbs. 75c, postpaid. **Iowa Grown Seed**—Grown on our own farm from selected stocks. Per lb. 40c, 3 lbs. \$1.00. See red ink price list for current values.

WE URGE EVERY FARMER CUSTOMER TO TRY A FEW ACRES**OF SUDAN GRASS IT WILL PROVE VERY PROFITABLE.**

EXTRA FINE FOR SORGHUM**AMBER CANE****FOR HAY AND GREEN FORAGE****KENNEY'S EARLY AMBER CANE**

An improved variety grown on our own farms to keep it pure. The stock seed has been saved from stalks tested for sugar content. This process has been followed for a number of seasons, until we now have, without doubt, the best sorghum cane in the country. Specially recommended for northern planters as it matures quicker than other varieties. Will grow over wider area than any other sort. In addition a crop of seed worth \$25 or \$30 can be grown at the same time. This last season our crop of Kenney's Cane equalled 8 tons of stripped cane per acre, producing 119 gallons of fine sorghum, and in addition our crop of seed averaged a ton to the acre. Use only 5 lbs. seed per acre. Per lb. 35c; 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.50; 25 lbs. \$3.00. See red ink price list.

EARLY ORANGE CANE

Differs from the Amber variety both in stalk and shape and color of seed head. Seeds are red and are produced in compact head similar to Kaffir and Feterita. It is a few days later to mature than the amber and is popular in southern Iowa, in Missouri, Kansas and Oklahoma. It is not so good for northern planters as the Kenney's Amber for sorghum making, but makes fine molasses where it matures. The syrup is somewhat lighter than that made from the amber variety. Some planters prefer it for fodder. The stock we offer for sorghum making is grown for that purpose, while the seed sold for fodder is bought on the market from field growth. High grade seed, per lb. 35c, 3 lbs. \$1.00, postpaid. By frt. or exp., not prepaid, 10 lbs. \$1.50; 25 lbs. \$3.00. See red ink price list.

**HOW TO GROW AND USE CANE FOR HAY AND FORAGE**

There is no fodder plant in existence that is so generally popular or that is grown over such a wide scope of territory. It is profitably grown anywhere from Manitoba to Mexico, on any good corn ground, and does not appear to be affected by drouth. It is easy to raise, the only real labor in its management coming at the harvest. It is valuable as pasture, green forage, as hay or fodder, and as silage, so that a live stock feeder can, from one field of cane, produce feed for several months as needed. It is wonderfully productive, the Ames Agricultural college harvesting twenty-nine tons of fodder per acre on August 27th from a plot seeded on May 21st. It is claimed that forty tons of green or ten tons of dry forage have been produced on an acre. It makes good feed, readily eaten in any form by all kinds of live stock, it is specially valuable as a feed for dairy cows, as the cows will give more and richer milk with Cane as a part of the ration.

Prepare the ground as for corn. Plow early in spring as you can, and if possible harrow twice before planting so as to destroy weed growth. Sow any time from May 10th to July 15th, broadcast or in drills, using about 100 pounds of seed per acre broadcast, or 75 pounds in drills. The grain drill is probably the better method, and if the ground is extra strong and rich, it is profitable to use 15 or 20 pounds more seed per acre. Cross seeding is recommended by Ames, using fifty pounds per acre at each operation. The object of the heavy seeding is to prevent the stalks growing too coarse and woody, especially if it is to be used as hay or dry fodder.

If cane is to be pastured it must be watched carefully, as sometimes too much is eaten by the stock and injury results. The best way to feed it is to cut it with the mower and allow it to wilt twenty-four hours before

giving it to the animals. By this method more labor is required, but the waste caused by tramping of stock and danger of bloat or poison is lessened. You can begin to pasture or feed sorghum when eight to ten inches high, and if grazed or cut at this period it will make a second growth for winter fodder or silage. By this means the greatest amount of feed is procured, and the feeding season lengthened. If this method is to be followed, early seeding is recommended.

Plant with grain drill when corn planting is over, using 75 pounds per acre. Do not harrow the ground until the cane is five or six inches high, as it is so tender and brittle when first up that harrowing does more harm than good unless the cane is large enough to survive the rough usage. It is usually cut in September, but the best plan is to let it stand until the seed has begun to form and before the seed has fully matured. The stalk is then filled with sweep sap. If allowed to stand in the field until the stalks become dry, the sweetness returns to the root and much of the nutriment is lost and the stalks become hard and woody. Cut with binder and put up in shocks the second day after cutting. Or it may be cut with a mower and raked into windrows and put into large ricks of 500 to 700 pounds. It will cure in this way very nicely and can then be stacked for feeding through the winter. It does not keep well in very large stacks, however, and most farmers prefer to feed direct from shocks. At the Iowa Agricultural college they use one field for hog pasture with good results. They say also that both the hay and green fodder were greatly relished by all kinds of stock, and the work horses especially thrived well on it and preferred it to any other kind of hay. See red ink price list for current values.

CANE IS GROWING IN POPULARITY EACH YEAR AS A FORAGE CROP. MAKES VERY CHEAP FEED,



FIELD OF SOJA OR SOY BEANS



PLANT OF SOJA OR SOY BEANS

PLANT WITH THE CORN**SOJA OR SOY BEANS****SOW FOR HAY CROP**

The most valuable method of using the Soy Beans in the Corn Belt is to plant them in the corn at the time of planting, placing two or three beans in each hill of corn. Most planters now have either a Soy Bean attachment or one which can be adjusted to the dropping of the beans in the manner suggested. The crop is "hogged down" in October and produces pork at very low cost. If rape is sowed in corn and beans at last cultivation, added value is given to the pasturage.

To get the best use of soy beans for fertilizing remove the small grain as soon as ripe, and sow the beans on the field. Some farmers may believe this to be very laborious, but when you realize that they are worth more than barnyard manure, you will see that they really provide a very cheap fertilizer easily applied. For fertilizer purposes, use three to four pecks per acre, turn the stubble three inches deep, and plant with a grain drill, using every other tube, and harrow in thoroughly. Usually the rank growth of the beans will keep down all weeds, but on weedy land it may be well to run a weeding harrow over the beans after start. They grow very rapidly during the hot weather of July and August, so that at time of frost they may have grown so large as to be difficult to turn under with the plow. If this happens, turn the pigs and cattle on them, but use the mower if the field is not so you can loose the stock, and haul a part of the forage off the field

COW PEAS

There is as much difference in the grading of cow peas as in clover, and we handle only the choicest; you will not be able to get better. **Circular on Cow Peas free.**

BRABHAM.—A new variety that is practically a small Whippoorwill. Markings of the seeds are the same. It is earlier than the Whippoorwill, and extremely prolific. Grown extensively in Kentucky and Tennessee and is claimed to be the most productive variety. Per pkt. 5c, lb. 25c, 3 lbs. 60c, postpaid. By freight or express, not prepaid, 10 lbs. \$1.50. See red ink price list.

NEW ERA.—Make splendid hay; use 30 lbs. seed per acre and plant like garden beans; particularly recommended for planting after grain harvest and plowing under in fall. Get the grain off the ground early and plow and plant to New Era cow peas; put the ground in fine shape for next year's crop. Mature in 60 days and have done well as far north as Minnesota. Pkt. 5c, lb. 25c, 3 lbs. 65c, postpaid. By frt. 10 lbs. \$1.50. See red ink price list for current values.

WHIP-POOR-WILL.—Highly valued for fodder and reclaiming worn out land; of special merit as a fertilizer. Whip-Poor-Will is a popular sort and yields a good crop of both fodder and peas. Ground peas make the best cattle fattener. Pkt. 5c, lb. 25c, 3 lbs. 65c. By frt., 10 lbs. \$1.50. See red ink price list for current prices.

to the feeding pens before plowing. If you are to get best results, the land should be plowed and beans turned under the latter part of September or first of October.

If the Soy Beans are to be grown for a hay crop or for silage, they should be planted and cultivated and if large area is used we recommend that the rows be planted thirty inches apart for horse cultivation. By this method about one-half bushel of seed per acre is required.

The Ames College made quite extensive tests this summer on Soy Beans of different varieties in order to determine which of the different kinds were best suited to Iowa conditions and they are recommending the Black Eyebrow, the Medium Yellow, the Itosan and the Early Brown as the best of the different types.

The principal value of the Soy Bean is the oil content. There is no food item produced, not even excepting Flax which contains any higher percentage of oil than Soy beans. The hay is equal in quality to Red Clover and altogether it is a valuable plant and one coming into general use throughout the middle west.

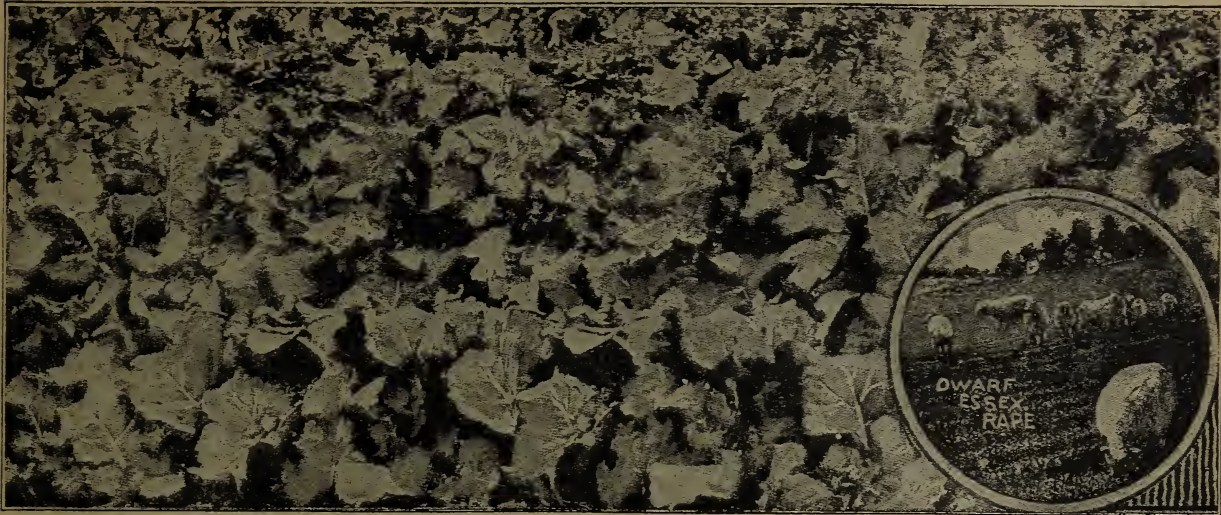
As a crop to improve the soil it is fully equal to clover. The roots of the plant gather nitrogen in the same manner as the clover and builds up the land in the same way. Pkt. any variety 5c lb. 25c; 3 lbs. 60c, postpaid. See red ink price list for varieties and prices.



WHITE CANADA FIELD PEAS

WHITE CANADA FIELD PEAS

These are entirely different from soy beans and cow peas. They are the same type as ordinary garden peas, growing three to four feet high and producing a great many well filled pods. The value of the peas to the farmer is for early hay. Sow as early as the ground can be worked in spring, one bushel of peas to two bushels of oats per acre. Mix the two together and sow with grain drill. Cut with mower when oats are in the milk, cure as ordinary hay. This crop can be produced in ninety days. It can be grown early in spring and a second crop of cane, rape or other forage grown on the same plot. The peas add nitrogen to the soil like the clover so that the crop is really a help to the land. Field peas can be sown alone very early in spring using two bushels of seed per acre in drills. Pigs can be turned in when the pods are filled and they will get wonderful pasture in this manner. This method will also build up the soil in a very short time, so that the following crop is sure to thrive. There are many and great advantages in the field peas because they do not have to wait for summer to make their growth. Pkt 5c; lb. 25c; 3 lbs. 60c, postpaid. See red ink price list for quantity prices.

**SOW IN SMALL GRAIN****DWARF ESSEX RAPE****SOW AMONG THE CORN**

This is without question one of the most popular and profitable of all annual forage plants, and everywhere it is giving the best of satisfaction. It is easily grown anywhere and stands unsurpassed as a pasture plant for hogs, cattle or sheep. They eat it greedily and seem to prefer it to any other pasture during the summer till late in the fall or early winter. It can be sown early in the season to provide for early pasture for sheep and swine or sown in small grain a few weeks after sowing the grain to provide pasture after harvest. This is very popular method, but it is generally the practice to sow the rape at same time the grain is seeded. We do not recommend sowing so early as it has a tendency to force the plant to seed in midsummer. We would prefer to wait until April 15 to May 1 if sowing in growing oats.

At the Iowa Experiment Station, 60 bushels of oats and 18 tons of rape were grown on an acre, the oats and rape being sown together early in the spring. The rape interfered but slightly with harvesting the oats and afterwards produced a heavy growth which amounted to 18 tons when cut in October.

Rape is also sown in corn at last cultivation. This is a very profitable method where the crop is to be "hogged down" in October. Rape belongs to the cabbage family and will generally withstand the light frosts of September or early October, and adds greatly to the value of the forage crop with the corn where stock are turned in to consume it.

In the East it is usually sown in drills, two or three pounds per acre, and cultivated, but in western states it is almost invariably sown broadcast, four or five pounds per acre, and grows so rapidly that weeds are quickly smothered. Where sown on stubble to supply fall pasture it is well to thoroughly disc the ground just as soon as the grain can be removed. It ought to be in the ground by August 1st. Sown in this way it generally takes six weeks from sowing before it is ready for use.

If you want to give rape a piece of ground for itself we recommend that you plow the land in April, let the weed growth start; then disc thoroughly to kill the weeds, and sow the rape in June. By this method you get the greatest returns from the crop, and it is a wonderfully profitable one if produced in this manner.

A Nebraska farmer says that he sowed only three pounds per acre on a four and one-half acre field, and five weeks after sowing he turned eighty head of hogs and forty pigs into the field and pastured them constantly until October. The plants grew so rapidly that at no time could he tell where the hogs had been twenty feet away from the gate.

Leo Wolf, of Leando, Iowa, tells of the experience of himself and neighbors with a purchase of rape seed from us. "The lot of Dwarf Essex Rape purchased from you was divided between three neighbors and my-

self. All of us succeeded well with the crop. That which I sowed did extra well. I pastured 20 head of hogs on half an acre for two and one-half months. I also turned in 10 or 12 head of cattle on rape and they were very fond of it. My hogs had no corn or other food except about three acres of grass. They did very well, but I think it would have been better to have given them some corn also." A bulletin on rape by the Ames College says:

"An acre of rape recently pastured with young growing pigs by the Animal Husbandry Section of the Iowa Agricultural Experiment Station, saved 366 pounds of corn and close to half a ton of meat meal tankage, actually 881 pounds. Valuing the corn at \$1.50 a bushel and the meat meal tankage at \$100 a ton, this rape acre replaced \$53.86 worth of these high priced feeds."

Rape is an exceptional forage crop for Iowa conditions. This is all the more appreciated when we emphasize that in good rape years, pigs pastured on this forage require less grain feed for 100 pounds of gain than when grazed on alfalfa. This is an efficiency commentary on the rape, because alfalfa is the greatest American pasture and forage crop." Pkt. 5c; lb. 30c; 3 lbs. 75c, postpaid. See red ink list for quantity prices.

SAND OR WINTER VETCH

The Sand Vetch is primarily a plant for late fall, winter and spring pasturage, or if sown with rye, may be cut for a hay crop in the same manner, and under similar conditions as field peas. The plant is a low running vine, often growing to the enormous length of twenty-five feet, and if sown alone never gets very tall and can only be pastured if sown in this way, since it is difficult to harvest it with ordinary haying tools. Sown with rye a crop of hay can be cut, and sheep or hogs turned in on the stubble immediately and the stock will not want for pasturage until the Vetch is entirely consumed. By sowing Vetch and rye in September the pasturage season for hogs and sheep can be prolonged a month after freezing weather begins, and generally some feed can be found in the field nearly all winter.

The Vetch is a legume and like the clovers builds up the fertility of the soil by storing nitrogen through its roots. It is difficult to plow under if allowed to grow to any size, since the vines intertwine and entangle in a mass difficult to work, but if pastured closely it may be easily turned under and with much benefit to the soil. Seeds are round, about the size of large shot, and will plant readily in an ordinary grain drill either alone or mixed with rye. If sown alone use one bushel Sand Vetch per acre, or use one-half bushel of Vetch and one bushel of rye per acre and prepare the soil as you would for crop of winter wheat. Pkt. 5c, lb. 40c, 3 lbs. \$1.00, postpaid. See red ink list.



SAND VETCH



EXTRA QUALITY IOWA GROWN CLOVER SEED

LOW PRICES THIS YEAR

There was a good crop of Clover throughout the country this season. At the time this part of the book was written the promise is for low prices and excellent quality of seed. We have been able, early in the season to buy large quantities of new crop seed at low prices. We have been careful in the buying so that our stocks are free from injurious weeds of every kind and we will have better quality than we have been able to supply for several years.

Our customers generally know the value of our Iowa Shield Brand Clover and we want to assure you that the quality of this season is even better than for several years in the past. Of course, we cannot at this time name a price that will carry through the spring season but an examination of the Red Ink List which accompanies this book will show you the values in force and we believe you should use Clover freely because there is need for more Clover on our farms in Iowa and the middle west.

THE USES OF CLOVER

Clover is the most useful of all plants to the farmer of the middle west. We have come to look upon it as absolutely essential if we are to retain the fertility of the soil and secure profitable crops of grain from the fields. The ordinary rotation is small grain, clover and corn; covering four years from grain to grain and sowing the clover with the small grain. Some farmers eliminate one year, turning the clover under in the fall of its first year, but it is generally preferred to harvest the hay the second year and turn it under the next spring before corn planting. It is generally seeded with timothy because mixed hay or pasture is preferred to clover alone. Clover and timothy sown in early April will make a crop of hay by mid-July.

The cost of clover seed has been quite heavy the past two years and many farmers have not sown clover because of the cost. At present prices however, you can afford to use it freely and there is no doubt about the necessity for so doing. Write for prices.

MEDIUM OR COMMON RED CLOVER

Iowa Shield" Brand Clovers our Famous Specialties,

We sell more clover seed direct to farmers than any seed firm in the West, and it is all sold because those farmers get better quality of seed,—brighter, cleaner, more plump and vital—than they can secure elsewhere. The reason is that we take special care to have everything first class and protect our customers by using the microscope in both buying and selling.

Our Clover seed has become widely known for its purity, strong vitality, hardiness, vigorous and healthy growth, and branching qualities, so that now we receive many or-

ders from the most distant parts of the United States. Well posted farmers appreciate the difference between it and ordinary stock. This is the most important of all clovers and the standard everywhere for hay and pasture and our "Iowa Shield" grade is the plumpest, cleanest, purest, fanciest grade; tested and of high vitality. Farmers usually sow 15 to 20 pounds of clover seed to the acre when sown alone, but this seed is so choice that 6 or 7 pounds is really sufficient if conditions are favorable, but we recommend sowing 10 pounds so as to be sure of a perfect stand. About 5 pounds, if sown with timothy. Per pound, 75c, 3 pounds \$2.00, postpaid. See red ink price list for quantity price.

MAMMOTH RED CLOVER

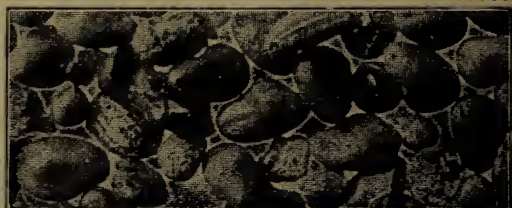
This is also called Sapling or Pea Vine Clover. It greatly resembles the Medium Red but grows coarser and more vigorous. It is the best clover for pasturage as it will produce an enormous yield and is of the highest feeding quality but not as desirable for hay. Specially desirable for hog pasture. You can enrich your soil more cheaply by sowing Mammoth Clover and plowing it under than in any other way. Per lb. 75c, 3 lbs. \$2.00, postpaid. Ask for price in quantity.



IOWA SHIELD BRAND CLOVER

Notice the plump, perfect shaped grain and freedom from weeds. You cannot secure better seed, no matter what you pay for it, and it costs but little more. It always pays to sow the best you can obtain.

Market changes constantly and this part of the catalogue goes to press in November. It is impossible to name price at which clover seed will sell in spring. We therefore quote price in this book only in small lots.



ORDINARY CLOVER

As it comes from the huller, full of weed seeds, trash and sand. If you buy low grade seed you not only risk filling your land with weeds, but you are also paying for each pound of weed seed and trash.

WE WILL BE PLEASED TO SUBMIT SAMPLES AND QUOTE PRICES FOR CLOVER SEED AT ANY TIME ON REQUEST.



HARDY UPLAND AMERICAN ALFALFA SEED

Send for free booklet "How to Grow and Use Alfalfa."

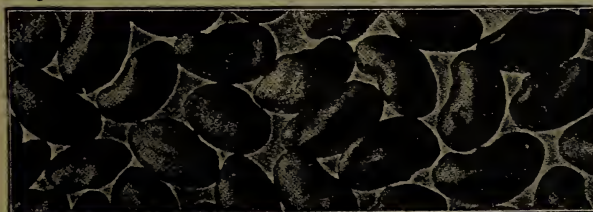
No crop is so valuable for permanent meadow as Alfalfa. In ordinary seasons three crops of hay are cut in Iowa and the North generally, while many seasons produce four cuttings. It stands the dry, hot months of July and August in the corn belt and continues green and growing at this time when other grasses are dormant. It is grown everywhere in the United States now, and it is a question of soil rather than climate which determines success or failure with Alfalfa. We procure our American Alfalfa seed from the states of Kansas, Nebraska and South Dakota so that they are suitable for any section of the country. Actual tests of seed from all over the United States show that the stocks produced in the semi-arid districts of the states named give the best results and are harder than stocks grown farther south or by irrigation in the West. It is because of the results of actual plantings that we offer this seed, and when we have re-cleaned it, taken out dirt, trash, immature seeds and weeds, we have the best possible stocks

THE QUALITY OF SEEDS

There is only a fair crop of Alfalfa seed this year. While some of the other varieties of Clover are greatly reduced in price compared with former seasons, Alfalfa remains nearer its real value and does not share with the extreme low prices of other kinds. The quality is excellent, but there has been a great deal of low grade seeds sold on the market just as it comes from the machines; naturally such seeds will be offered at cheaper prices. It will pay you however, to buy the best seed you can find. You had better have five pounds of clean, plump and vital seeds where every plant will be strong and vigorous than to have ten pounds some of which is only sand or dirt and a great part of which will produce weak plants without strength or vitality.

You must remember that Alfalfa plants only survive if they have a strong and vigorous start and this is impossible from immatured or weak seeds. As it is a permanent plant an additional reason is given for excellent care in the selection of seed which you sow.

Many farmers are now using inoculating bacteria on Alfalfa seed before planting and while we have hesitated to recommend this we now believe that the practice is a good one, and that it really does improve the crop of Alfalfa. The cost is not excessive and you will please refer to page 60 where Bacteria for Alfalfa and other crops is offered.



Iowa Shield Brand Alfalfa—Perfect, plump grains, free from weeds, Alfalfa seed as frequently sold. Full of weeds and dangerous.

IOWA SHIELD ALFALFA SEED

No seed which we handle is given closer scrutiny than Alfalfa. We buy only the best offered; using the microscope and analyzing for purity. Our Iowa Shield Brand grade is the brightest, plumpest and cleanest we can find; and even this is not good enough for the Shield grade until we have re-cleaned it through our perfected machinery and taken out everything in the way of sand, broken grains and dirt. We invite the closest inspection of our Iowa Shield Brand Alfalfa from particular farmers and we will gladly mail you a sample on request for microscopic inspection and analysis. Per lb. 50c, 3 lbs. \$1.35, postpaid. See red ink list for price.

GRIMM ALFALFA

In response to demand we are offering what we believe to be true Dakota grown stock of this variety. We will use the greatest care to provide our customers with genuine Grimm. Per lb. 75c, 3 lbs. \$2.00, postpaid. See red ink price list.

OUR FANCY GRADE ALFALFA

Will be found of excellent purity, free from prohibited weeds, and grading lower than the Iowa Shield Brand because of color rather than actual value. See red ink list.

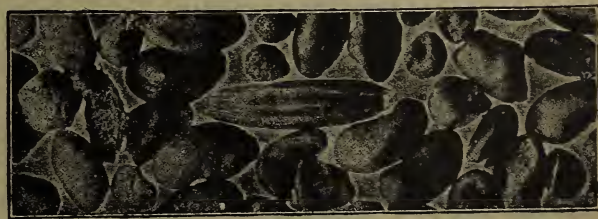
IOWA STANDARD ALFALFA

The Iowa Standard is a good grade of Alfalfa, fully up to standard of the Iowa pure seed law, and is in fact fully equal to most of the Alfalfa seed offered as "choice" or "prime" by other dealers. Write for price.

TURKESTAN ALFALFA

We import the seed of this variety, but are just as careful in our buying as we are in the purchase of American seed. There is a demand for this sort in the semi-arid regions of the west and northwest as it is said to be harder than our native sorts. Lb. 45c, 3 lbs. \$1.25, postpaid.

Write for prices. They change constantly and we cannot make a price which will be invariable. We issue a price list each week or oftener, as required. If you are in a hurry, order seed and we will send full value of money received on day order arrives. We pay postage at the 1 and 3 lb. rate only. If you want pound lots by express deduct 10c per lb. from price quoted. Large quantities shipped at purchaser's expense. Bags for grass seeds are furnished free at prices quoted on the red ink price list.



THE GROWTH OF ALFALFA IS A QUESTION OF SOIL RATHER THAN CLIMATE. OUR HARDY STRAINS FOR ALL LATITUDES.



HULLED AND SCARIFIED SWEET CLOVER SEED

Ask for Circular on Sweet Clover and Price Per Bushel.

Sweet Clover is now a standard crop throughout the country. It is now being used in spring sowing exactly as common red clover. Some farmers seed it with small grain for nurse crop, while others are sowing it alone in early spring and securing both pasturage and hay the first year. The handling of this crop has passed the experimental stage. We now have machines to hull and clean it, so that we offer it in as high quality and purity as any clover.

SCARIFYING THE SEED.—One great difficulty with sweet clover in the past was slow germination. In the natural condition the seed has a very hard hull and the germ does not start quickly. Sometimes spring sown seed would not sprout until fall, and at best only about 70 per cent germination might be expected. Prof. H. D. Hughes, of the Iowa Agricultural College, at Ames, Iowa, has perfected a machine to scarify the seed, and kindly permitted us to install one in our warehouse so that we can now supply our customers with seed that will show a high percentage of germination. A bushel of scarified seed will give you 25 per cent greater germination than untreated seed, and is really worth that much more to the planter. Use 12 to 15 lbs. of scarified seed per acre. This gives a heavy stand resulting in hay of fine texture and quality.

Sweet Clover belongs to the family of leguminous plants, and adds greatly to the fertility of the soil on which it has been grown. The same bacteria which live on its roots thrive on the roots of alfalfa and therefore it is claimed that alfalfa will do much better on land where Sweet Clover has previously been grown. It roots very deeply, therefore opens up the soil so as to adapt it for all other kinds of crops, making it not only more rich in nitrogen, but allowing the roots of other plants to penetrate more deeply.

Sweet Clover will grow and make a crop on the poorest soil and worst locations of any of the grasses. It thrives on land where there is no plant food apparently. It will be found growing wild in railroad cuts, about the mouths of abandoned coal mines, or steep hillsides where stone crops

out—in fact it will grow under more adverse conditions than any of the coarser grasses, and every place it grows it enriches the soil and prepares it to produce the more economic grains and grasses. It is used by thousands of farmers as a forerunner for alfalfa. You will not require inoculation or any preparation of any kind if you sow alfalfa on land that has grown sweet clover.

Many times a farmer wants to start a field of sweet clover in the fall. This is readily done, and by this method you get it out of the way of spring work. Sow in late October on thoroughly prepared ground. The seed will lay in the ground all winter and sprout in early spring. We believe you get quicker growth and larger crops with fall sown seed, although since the scarifying process has been perfected quicker growth is secured with spring sown seed.

If you sow scarified seed with small grain in early spring you can reasonably expect to cut a crop of hay in October. If preferred the crop can be turned under in fall plowing and by this method you can build up the soil without using the clover rotation if you so desire. Sweet clover can be sown among the corn at last cultivation and turned under the following spring, or it may be used for pasturage or hay during the summer. It has a permanent place in agriculture and we expect to see it increase in popularity.

WHITE BIENNIAL.—(*Melilotus Alba*, or *Bokhara*.)—The white-flowered variety frequently seen growing wild along the roadsides. In growing it for hay, it is cut when about 18 inches to 2 feet high and before it begins to branch heavily. If the mower bar is set about 6 inches above the ground it will cut above the first branches and the clover produces a second crop. If cut too close to the ground the plants are not likely to survive the first cutting. Sow very early in spring or fall, and without a nurse crop. Germinates more quickly and freely if sown on a well prepared seed bed. Per lb. 40c, 3 lbs. \$1.00.

YELLOW BIENNIAL.—(*Melilotus Officinalis*.)—Very similar to the commoner white-flowered (*Melilotus Alba*), but blooms a little earlier. Not so rank and coarse and for this reason is claimed to be superior. Per lb. 40c, 3 lbs. \$1.00.

STANDARD BRAND INOCULATING BACTERIA

For Alfalfa, Sweet Clover, Common Clover, Soy Beans, Cow Peas, Vetch, Garden Peas, Beans, Sweet Peas and all Legumes. Price: 1 acre 75c. 2 acres \$1.40, 4 acres \$2.00, 6 acres \$2.75.

Add 5c per acre for postage and packing.

KINDS OF BACTERIA

There are many kinds of legume bacteria, differing from each other in shape, size and general characteristics. There is a separate bacteria for each of the legumes. Alfalfa has its own bacteria. There is a separate and distinct germ for the different kinds of beans and peas, as well as a separate germ for each of the clovers, red clover, alsike clover, crimson clover, etc., each having its own germ. Sweet clover, however, has practically the same germ as alfalfa. Mammoth clover being only a development of red clover, has the same germ as the red. With these exceptions each legume has a different germ. Each legume, therefore, must have its own kind of bacteria and without nodules the plant can take no nitrogen from the air.

HOW TO INOCULATE THE SEED

Each bottle of bacteria, as it reaches the customer, is only partially filled with bacteria. When ready to inoculate the seed, remove the rubber cork, fill the bottle about two-thirds full of water and stir and shake thoroughly. Spread the seed on a clean floor. Pour the diluted bacteria out of the bottle into a pan, adding enough more water to nicely moisten all the seed. This will require at least a pint for each bushel of seed. Sprinkle the seed either by hand or with a sprinkling can, stirring the seed well with the hands so that each seed is moistened. Dry in a cool, airy place, but keep them out of the sunshine while drying.

SOWING THE TREATED SEED

Inoculated seed should be sown soon after they are sufficiently dry to handle. If slightly moist all the better. It is a good plan to treat the seed in the evening and sow early the next morning. If placed in a dark place, however, they can be kept for many days, but they should be slightly moistened again, with water, just before sowing.

THE SALE OF SWEET CLOVER SEED INCREASES EACH YEAR AS ITS VALUE BECOMES BETTER KNOWN TO OUR FRIENDS.



STRICTLY RECLEANED ALSIKE CLOVER SEED

Alsike clover is a perennial variety and because it does not die out after seeding as does the common red variety, it is preferred for permanent pastures and meadows. It is harder than common clover and will winter over the severest seasons. It thrives on wet, heavy soils and in mucky ground better than any other clover. It grows somewhat smaller than ordinary clover and many farmers prefer it for hay on that account. It grows 18 to 24 inches high and has round pink or flesh colored blossoms. The seed is small like timothy seed and 7 lbs. alone or 3 lbs. with timothy, are sufficient for an acre. You can seed with Alsike at a lower cost per acre than any other clover.

Alsike clover seed is nearly always produced in mixed meadows. For this reason there is no other clover seed which varies so greatly in quality and price. Don't buy cheap Alsike and don't buy any that has not been thoroughly cleaned. Seed as usually threshed will contain sorrel, dock, timothy, white clover, dirt and trash and it requires expert service to get it really clean enough to use with safety. Well matured clean Alsike seed is blue-green in color, without yellow, and if samples show red they contain immature seed which is of doubtful vitality. It may be taken for guidance that the bluer and brighter the seed the better. Because of its distinctive size and color you can easily determine for yourself the quality. Cleaned seed costs more than if the impurities are not taken out, but you cannot afford to sow seed on a price basis alone.

We do not consider Alsike equal to either the Sweet clover or red clover for building up soil. It does not afford the quantity of nitrogen which the larger kinds carry to the soil. It has however great value as a soil builder, and when the permanent pasture or meadow is plowed after a number of years standing, the land will be much stronger if a good proportion of Alsike has been included.

WHITE DUTCH CLOVER

The low growing, creeping, hardy white flowered sort so common throughout the country. It spreads rapidly as it is almost certain to reseed itself each year. Its principal use is in permanent pastures but large quantities of seed are used each year in seeding lawns and it is a favorite grass for this purpose. It is strong and tenacious and will hold better on hillsides and terraces than most grasses. The seed is very small, bright yellow in color, and 5 lbs. will sow an acre. Owing to its creeping habit it is difficult to make a seed crop from white clover and price is generally higher per pound than other clovers. We buy the best seed we can find. The common impurities are cress, dock and sorrel and as they resemble white clover seed in color close scrutiny is necessary. Don't buy cheap white clover seed. Values vary greatly. The poorer grades can be bought at a very low price. It is also offered among the lawn grass seeds on page 65. Per lb. 35c; 3 lbs. for \$2.50, postpaid. See red ink price list for quantity values.



CRIMSON CLOVER

TIMOTHY AND ALSIKE MIXTURE

This has proven a very popular item for permanent meadow, and is really a desirable hay crop. Timothy and Alsike mature seed at the same time so that when seed from a mixed field is threshed both items are contained in the seed crop in proportion as they grow in the meadow. We do not advocate the use of such seed. It is possible with modern cleaning machinery to separate the Alsike from the timothy and to remove the weeds and trash that invariably come from the thresher. All the mixture we sell we prepare in our own warehouses, using 25 per cent Alsike and 75 per cent timothy. We use clean seed of high quality and the only advantage to the customer is that you can save the labor of mixing. As a general proposition it is best to buy your grass seeds separately and mix in such proportions as your soil or conditions require. If however, you want to save the labor involved, and the proportions as mentioned meet your needs, we shall be glad to have your order for Alsike and timothy mixture. We know that the quality supplied by us will please you and we also know that the proportions are as represented. It would cost less if we sold field grown mixture, as it can generally be purchased at comparatively low price. It is our thought that no seed should be used without recleaning, and this service can best be given by complete separation. We have a gravity grader which separates heavy from light seeds, so that is not difficult to take the Alsike which weighs 60 lbs. per bushel from the timothy which weighs 45 lbs. per bushel. You would be surprised to see the large quantity of weed seeds, trash and immature seeds which are removed by such an operation.

Do not plant any seeds without grading. Sow only plump vital seeds. These only result from recleaning because nature produces a heavy percentage of weak seeds.

CRIMSON CLOVER

Also called Giant Incarnate. This is an annual clover and it will not survive the winters in the north. In the south it is sown in the fall and winters over, making a grass crop in early spring. It has value, however, and if you want to take a year from your rotation, sow Crimson clover with small grain in spring, turning it under just before frost in fall. You can use it to advantage where winter wheat or rye are a part of the rotation by seeding Crimson clover on the growing grain in April and covering in with a disc. It will make a good growth after the grain is harvested and if the land is plowed in October the soil will be in fine condition for a corn crop the following spring. The illustration shows manner of growth and peculiar shape of the blossom. It is larger in growth than the common red clover. The seeds are round in shape and colored like red clover seed. As its principal value is soil building we recommend heavy seeding and would use 15 to 20 lbs. per acre. Per lb. 40c; 3 lbs. \$1.00, postpaid. See red ink price list for quantity values.



CHOICE IOWA GROWN TESTED TIMOTHY SEED

Timothy is now the most popular and widely distributed of grasses. Not only is it grown throughout the United States but it thrives in the temperate zones throughout the world. It is a hardy perennial and quite tenacious so that it continues to grow in spite of summer heat or winter cold. It is the foundation grass for meadows and pastures and is popular because it fits in with almost any rotation system. It is generally sown with clover in spring, among oats, wheat or spring rye. Many farmers who grow winter wheat or rye sow the timothy in the fall, adding the clover in the spring by using a disc harrow on the growing wheat or rye. Sometimes it is sown among corn at last cultivation and frequently it is planted on small grain stubble as soon after harvest as possible. In fact the planting season for timothy extends from March to October so that the farmer can count upon it to fit in almost any way. The most popular method is to sow with clover in early spring using small grain as a nurse crop. In our opinion the grain crop might be omitted with better results but the general practice is

otherwise. If a nurse crop is used we suggest an early small oat such as Iowa 103 or Iowa 105 as first choice. Next is smooth wheat like Marquis, although rye is generally just as good and profitable. Barley makes a fair nurse crop. Your choice of small grain should be made with reference to the strength of the soil.

We make a specialty of supplying the choicest timothy direct to farmers. We carefully clean all timothy seed we offer. Generally the seed as it comes from the machines contain dirt, trash and weed seeds. Don't sow uncleaned seed. It is difficult at best to keep weeds off the farm, and impossible to do so if you sow grass seeds without re-cleaning. Not only are you making trouble for yourself by sowing poor seed but you will pay for three or four pounds of worthless trash in every bushel you buy. We are located in the best section of the country for growing timothy seed and more of it is grown in Iowa than in any other part of the world.

Use 12 lbs. of seed per acre if alone; 10 lbs. with clover. Per lb. 25c, 3 lbs. 50c. postpaid. Ask for price in quantity.

THE SEEDSMEN'S SERVICE

The measure of usefulness of the seed house in the handling of grass seeds is the ability to take the crops as they come from the farms, re-clean the stocks and send them out to planters free from weed seeds, dirt, trash and impurities and in fit condition to produce good crops. The seedsmen who simply buys and sells performs no function that is worthy of reward. All the best houses in the trade are equipped to clean and improve the quality of stocks purchased on the open market. Because of these conditions the farmers patronize the seed houses. Most planters realize that they can procure better seed from the seedsmen than from the grower. Every year a great many of our patrons sell us their crops of clover and grass seeds and buy fresh supplies from us because they find it profitable.

For the service rendered in re-cleaning and grading grass seeds the pay is small. Ten per cent on an average will measure the margin between buying and selling prices, and this is a very low cost when it covers all the many details necessary in the work performed. The cost of this service and the price paid for it by no means measure the value to the planter. It is one of the great factors in increasing farm production.

No seed firm in this country takes greater pains and care in the purchase and sale of grass seeds handled than do we, and none have experts of greater knowledge or better judgment. The men in charge of buying, cleaning and grading have all had more than twenty years' experience in our own establishment. We also have the latest and best cleaning machinery and thus equipped we are in position to furnish and do furnish the very highest possible quality in this line. No expense is spared either in purchase price or handling to keep up the quality; and of course it costs a little more, but when you see a field of grass, free from weeds, of strong and vigorous growth, you will realize that quality is and should be of greater concern than price.

CLEAN SEEDS

Few persons can detect impurities in grass seeds unless seed is very foul. Often our friends have watched our re-cleaning machines and wondered where the impurities came from, as the seed seemed without dirt or trash before cleaning. Grass seeds as they come from the thresher contain large quantities of impurities. For every pound of dirt in clover seed you pay 40 to 50 cents. Shrinkage usually runs from 3 to 6 lbs. per bushel. This makes quite a difference in real value and our seed is really worth \$1.00 to \$2.00 per bushel more than seed as commonly sold. No one should buy seeds from any source unless they have been thoroughly cleaned. We will be pleased to submit samples for inspection, or you can have seeds from us analyzed by any authority in the country and abide by the report.

OUR IOWA SHIELD BRAND GRASS SEEDS

Now have a national reputation and are shipped to every part of the country where grasses grow. Iowa Shield Brand of Clover, Timothy and other seeds is strictly new crop of exceptional purity and has been thoroughly re-cleaned on the best electric seed cleaning apparatus made. It is a plump, nice seed, carefully tested and proven of strong germinating qualities. These we have thoroughly re-cleaned, tested and carefully inspected under the microscope for foul weeds. To distinguish it from ordinary grasses, we call our best grade "Iowa Shield Brand." It is shipped to customers in branded bags. It is sure to produce vigorous, healthy plants and an exceptionally good crop if the weather and soil conditions are not unfavorable. It pays to sow the best seeds obtainable and our Iowa Shield Brand is, we are sure, superior to any other.

Our Iowa Standard grade clover, timothy and other seeds is really a choice grade, fully up to requirements of the Iowa Pure Seed Law in purity and vitality, and is, we believe, as good seed as you could obtain from most dealers.



WE MAKE NO EXTRA CHARGE FOR BAGS TO HOLD TIMOTHY, CLOVER AND OTHER GRASS SEEDS SHIPPED TO YOU.



RECLEANED SEED FOR PERMANENT PASTURES

KENTUCKY BLUE GRASS

Kentucky Blue Grass is the most popular of the light grasses. It thrives in all parts of the U. S., but generally remains dormant during extremes of summer and winter. Will continue to grow luxuriantly if plenty of rainfall is available during the summer months, and stays green and growing in winter until the ground is actually frozen. As a pasture grass it affords more nourishment for live stock than any other and the blue grass pastures of Kentucky are famous the world over for the fine animals which are reared to perfection on this grass. It thrives as well in Iowa and the central west as it does in the state from which it takes its name. Large quantities of seed are now produced in Iowa and Missouri. It spreads from the roots and where it once gets a start will crowd out other grasses. It is not recommended for meadow because the tonnage is small but as pasture it is not equalled.

FANCY CLEANED.—The legal weight of Blue Grass is 14 lbs. per bushel. Improved cleaning is now possible and the ordinary grade will actually weigh 17 to 19 lbs. per measured bushel. To avoid confusion we offer by the pound. By mail postpaid per lb. 45c; 3 lbs. \$1.25. See red ink list.

"IOWA SHIELD" KENTUCKY BLUE GRASS.—We pride ourselves on this extra choice grade, which is of such unusual purity and high germination that it is of special value for lawns or for mixing with heavier grasses when seeding for pastures. Lb. 50c, 3 lbs. \$1.40, postpaid. See red ink price list.

ORCHARD GRASS

Second only to blue grass as a pasture grass and superior to it for meadow purposes because it yields much greater tonnage per acre. It is equally hardy as blue grass, becoming green and available very early in spring and continuing fit until frozen. Recovers from cropping very rapidly, and in fact seems to grow more luxuriantly the more it is cropped. It does not spread so rapidly as blue grass, grows in bunches, and hence best results are obtained if it is seeded with other grass which may occupy the ground between clumps. Thrives better in shaded situations than other grasses, and is therefore specially valuable for woodland pastures and meadows. Stands drouth better than blue grass and will grow as well on thin soil as any. It is a great favorite among the farmers of the middle south. Per lb. 50c; 3 lbs. \$1.40, postpaid. See red ink price list.



BLUE GRASS



ORCHARD GRASS

The grasses on this page should have a wider use than are at present given them. Each has its particular place where its value is greater than that of the ordinary timothy and clover meadows and pastures as generally grown. They should appeal particularly to the live stock grower.

RED TOP

Very hardy perennial, in form similar to blue grass. Specially useful as an item in pastures or meadows on wet soils. Adapted to almost all land but succeeds best and gives best returns with rich soil and plenty of moisture. Like blue grass the legal weight is 14 lbs. per bushel but recleaned seed such as we sell actually weighs 20 to 25 lbs. per measured bushel. It will be noted as a component part of our special pasture and meadow mixtures of the following page. Solid seed per lb. 40c; 3 lbs. \$1.00, postpaid. See red ink price list.

ENGLISH BLUE GRASS

Also called Meadow Fescue. (Weight 14 lbs. per bushel.) A valuable grass and one growing in use as it becomes known to western planters. It is splendid in mixed pastures or meadows. Larger and coarser than Kentucky Blue Grass. Quite popular with timothy and clover in permanent pastures, and is included in most of our special grass mixtures on the following page. Sow 20 lbs. per acre if alone. Lb. 50c; 3 lbs. \$1.40, postpaid. See red ink list for quantity price.

PERENNIAL RYE GRASS

Also known as English Rye Grass to distinguish it from the Italian varieties. This sort is perennial, perfectly hardy in our climate and a valuable grass for permanent meadows or pastures. It is a heavy yielder but we think its best place is in conjunction with other grasses. We offer it as a part in our meadow and pasture mixtures. Legal weight 14 lbs. per bushel. Sow 20 lbs. per acre. Lb. 35c; 3 lbs. \$1.00, postpaid. See red ink price list.

ITALIAN RYE GRASS

This is the annual rye grass which grows so quickly. Produces a fine crop of hay in 70 to 80 days. Will produce second crop suitable for pasturage after hay harvest. If you do not wish to use small grain as a nurse crop for timothy and clover we recommend this grass as by its use you can secure a crop of good hay and plenty of fall pasture the first year. Sold at 14 lbs. per bushel. Sow 14 lbs. per acre. Per lb. 35c; 3 lbs. \$1.00, postpaid. See red ink price list.

BERMUDA GRASS

A most valuable grass for the South. Withstands heat and drouth wonderfully. Valuable for hay and pasture and unsurpassed for lawns in the South, as it runs over the ground forming a dense turf. Sow 8 lbs. per acre. Per lb. 95c, 3 lbs. \$2.70, prepaid; 5 lbs. or more not prepaid, at 75c per lb.



MEADOW FESCUE



PERMANENT PASTURE AND MEADOW MIXTURES

PERMANENT UPLAND MEADOW

Provides a mixed hay of best quality. It also may be pastured after cutting should it be preferred to use it in that manner. The other grasses in time will crowd out the alfalfa and the red clover will cease to grow after the second year unless permitted to seed itself, and it might be desirable to add two pounds each of alfalfa and red clover per acre after the second year. This top seeding should be done in early spring and a land roller used after the sowing. Based on 3 lbs. red clover, 3 lbs. alfalfa, 6 lbs. timothy, 1 lb. English blue grass, 1 lb. perennial rye grass and 1 lb. orchard grass per acre. Price 55c per lb.; 3 lbs. \$1.50, postpaid. See red ink list.

PERMANENT UPLAND PASTURE

For ordinary soils and desirable for all kinds of stock. Grasses are all hardy and will furnish pasture from early spring until severe freezing weather. It can be sown with small grain in spring or alone and if alone is ready for use in 90 days. Will supply good pasturage for many years under ordinary usage. Basis per acre: Alfalfa 1½ lbs., Alsike clover 1½ lbs., red clover 1½ lbs., timothy 3 lbs., perennial rye grass 1 lb., English blue grass 1 lb., Kentucky blue grass 2 lbs., Red Top 2 lbs., orchard grass 1½ lbs. Price 55c per lb. or 3 lbs. for \$1.50, postpaid. See red ink price list for quantity values.

PERMANENT LOWLAND PASTURE

Particularly recommended for low, moist lands or for pastures that do not have drainage sufficient to throw off

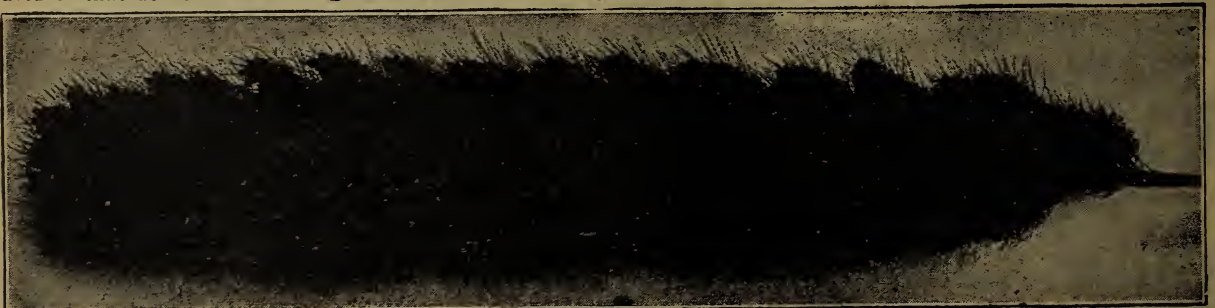
rains quickly. All are hardy and perennial so that the pasture should remain in good condition for many years. Basis per acre: Alsike clover 3 lbs., timothy 4 lbs., Red Top 4 lbs., English blue grass 2 lbs., Kentucky blue grass 2 lbs. This allows 15 lbs. per acre and should provide a heavy stand of grass. Recommend rye as a nurse crop because it can be consumed as pasture while the young grasses are getting growth. A bushel of rye and 15 lbs. of the above mixture per acre will give quick and lasting results and wonderful returns. Price, 55c per lb.; 3 lbs. for \$1.50, postpaid. See red ink list.

PERMANENT LOWLAND MEADOW

Peculiarly adapted for heavy and wet soils and for those fields that are under water after heavy rains. Equals in quality best upland hay. Basis per acre: Alsike clover 3 lbs., timothy 3 lbs., red top 3 lbs., English rye grass 3 lbs., and meadow fescue 3 lbs., a total of 15 lbs. These are all perennials and do not require reseeding. Price, 55c per lb.; 3 lbs. for \$1.50, postpaid. See red ink price list.

WOODLAND PASTURE MIXTURE

For orchards or timber pastures. A top seeding in early spring without cultivation will result in better pasturage than if no care is given other than nature's methods. Basis is White Dutch clover 3 lbs., orchard grass 6 lbs., Kentucky blue grass 5 lbs., English blue grass 3 lbs. and Perennial rye grass 3 lbs. These are permanent. Price, 55c per lb.; 3 lbs. for \$1.50, postpaid.



MILLET

There is nothing like millet to cover up shortage in your hay crops. Can be sown in the middle or end of July and makes a valuable catch crop. See red ink price list for current values during the season.

IOWA SHIELD GOLDEN MILLET.—This is an extra fancy grade of the true southern grown Golden millet of the Tennessee or cultivated strain. The seeds are round and "shotty." The heads are very large, borne on a strong vigorous, very leafy plant and produces a much heavier crop than the ordinary stock. Per lb. 25c, 3 lbs. 60c, postpaid.

COMMON MILLET.—Preferred by some to Golden, as it does not grow so rank and coarse. Makes a better quality hay, but will not produce so heavily. Use strong, rich ground for best results. Lb. 20c, 3 lbs. 50c, postpaid.

SIBERIAN MILLET.—Frequently called Red millet. Resembles Golden millet in manner of growth and productiveness. Seed is mixed red and yellow. Lb. 20c, 3 lbs. 50c.

HUNGARIAN.—Popular in some sections. Sometimes preferred to millets as it is thought to be less dusty. Per lb. 20c, 3 lbs. 50c, prepaid.

JAPANESE MILLET.—(*Panicum crus-galli*).—A distinct variety called by one seedsman the "Billion Dollar Grass." Especially valuable for the north. Yields an enormous crop of forage, which is greatly relished by stock. When cured makes an excellent hay. Per lb. 30c, 3 lbs. 75c, postpaid.

MANITOBA MILLET.—Hog or Broomcorn millet. Best for withstanding drouth. Two weeks earlier than Golden. Per lb. 20c, 3 lbs. 50c, postpaid.

PEARL MILLET.—Entirely different from ordinary millet; an immense fodder yield, of tall growth, highly recommended by the Department of Agriculture for the South. Sow in May in the North. Per lb. 35c, 3 lbs. \$1.00, postpaid.

WE MAKE ALL OUR OWN MIXTURES OF GRASS SEED AND THEREFORE KNOW THAT THEY ARE OF CHOICEST QUALITY.



A nice velvety lawn adds more to the beauty of a place than any other adornment, and even the humblest home may be made attractive with such surroundings, while without a good lawn even the finest flowering plants and elegantly arranged beds seem insignificant. How important it is then to plan for the best lawn obtainable. Do not spend money in sodding a lawn, for it is expensive and seldom satisfactory. When sod is cut from the roadside or some out-of-the-way pasture, it is poor in quality and full of weeds, and when unevenly laid produces a rough surface. It costs much less to sow the seed and the lawn is far better. Ask for twenty-page circular of information, "How to Make a Lawn."

EVERGREEN MIXED LAWN GRASS SEED.—(Bu. 15 lbs.)—Our own special mixture of grass seeds suited for growing together in the central and northern states. Will make a beautiful, soft, velvety lawn, as hand-some green as an emerald and is formed of grasses which keep green from early spring all through the summer. It comes up quickly and it soon spreads to cover the ground. Ready for the mower in 6 or 8 weeks. Permanent, though it is a good plan to give a lawn a top seeding every 2 or 3 years. Made from new crop, re-cleaned, seeds. Per lb. (will sow 400 sq.-ft.) 50c, 3 lbs. \$1.40, postpaid. Not prepaid, 10 lbs. \$4.00.



SHADY PLACE MIXTURE.—(Bu. 15 lbs.)—This mixture is a combination of fine, dwarf-growing, evergreen varieties of grass which grow naturally in the woods or in shaded spots, to make a fine lawn under shade trees. All grasses need sunlight, but certain ones thrive better in shaded situations than the ordinary kinds. By the use of our Shady Place Mixture you can get a fine grass under the trees and along the north side of boundary fences and hedges. Sow the seed thickly, one pound to three hundred square feet. Heavy seeding makes quick sod. Price per lb. 50c, 3 lbs. \$1.50, postpaid. Not prepaid, 10 lbs. \$4.25.

TERRACE LAWN MIXTURE.—(Bu. 15 lbs.)—It is very difficult sometimes to grow a good sod on sloping ground, terraces, side hills, or on embankments. This is a mixture of grasses which have strong and spreading roots, making a close turf which heavy rains cannot wash out easily. On new lawns some oats should be sown in order to prevent washing until the grass gets a start. Per lb. 50c, 3 lbs. \$1.40, postpaid. Not prepaid, 10 lbs. \$4.00.

WHITE CLOVER, "Iowa Shield" Brand.—The well known common white clover is very hardy and its dwarf growth makes it desirable for lawn mixtures. Its close, dense turf and creeping habit makes it fine for terraces and sloping ground. Seed very small and requires but little in mixtures. (Bu. 85c, 3 lbs. \$2.50, postpaid.)

KENTUCKY BLUE GRASS, "Iowa Shield" Brand.—(Bu. 14 lbs.)—Our stock of this is the best grade of fancy cleaned, new crop, tested seed. The crop is very short and prices may advance before spring. Lb. 50c, 3 lbs. for \$1.40, prepaid. Not prepaid, 10 lbs. \$3.30, 50 lbs. \$15.50, 100 lbs. \$30.00. See red ink price list.

LAWN FERTILIZERS

PEERLESS FERTILIZER.—Lawn grass is a voracious feeder and will not thrive and hold its color and velvety appearance unless it is suitably fed. Our Peerless Fertilizer is of best quality, dry, finely pulverized, easy to apply, practically non-odoriferous. In preparing a new lawn, sow 25 to 50 lbs. per 1,000 sq. ft. of surface, according to richness of soil, raking in thoroughly. For top dressing on lawns, use about 40 lbs. per 1,000 sq. ft., or 1,000 lbs. per acre, early in spring. 10 lb. pkg. 60c, 25 lbs. \$1.00, 50 lbs. \$1.75, 100 lbs. \$3.25. Ask for price in quantity.

SHEEP MANURE.—This is a natural manure, unadulterated. If wanted in liquid form, dissolve at the rate of 1 lb. to 5 gallons of water. Price, 10 lbs. for 60c, 50 lbs. \$1.75, 100 lbs. for \$3.00. Ask for price in quantity.

PURE BONE MEAL.—It is clean, free from odor and gives results in added growth of grass. Preferred by many users because it lasts longer than other. Roots of grass showing need of fertilizers, one application usually showing results for several seasons. 10 lbs. effect of Peerless Lawn Fertilizer. 50c, 50 lbs. \$2.00, 100 lbs. \$3.30. Ask for prices in quantity.

Roots of grass showing effect of Peerless Lawn Dressing.

FLOWER SEEDS

Our floral beauties come in for their full share of attention, and aside from our seed farm we have twelve acres of land right in the city, convenient to the street cars, devoted exclusively to flowers. Here we grow thousands of varieties and have in our employ experienced specialists in this line, who, under our supervision, attend to growing whatever can be grown to advantage in this country, test all novelties offered in this country or Europe, and are constantly trying by selection and hybridization to improve the leading varieties, and make our choice Iowa Flower seeds just what we are striving for—the best in the world. We invite all our customers to call and see this Floral Exhibition whenever they are in the city. Even during the winter the large green-houses on these grounds are a revelation of beauty which surprises everyone. We also have a large acreage on our seed farms east of this city devoted to floriculture. Our flower seeds are all fresh and we know are unsurpassed. Quality is always the first consideration. Our mixtures are mainly made up by us from named varieties, or by growing a number of the best varieties together, and will yield a better assortment than is common.

DIRECTIONS FOR SOWING, ETC.—The conditions and requirements of the several species as to soil, moisture, heat, etc., should be studied and observed in culture. We give a few general instructions though more complete directions are printed on seed packets. The soil best adapted to most flowers is light, rich loam, containing enough sand to make it porous. If there is some clay with it the colors will be brighter. Make surface smooth and fine as possible; sow seeds in rows, covering each sort of seed in proportion to its size and you should press the soil down firmly over the seeds. Do not plant any seeds when the ground is wet. Many varieties, such as pansy, verbenas, daisy, hollyhock and the fine greenhouse plant seeds, should be sown early in shallow boxes in the house, in soil consisting of equal parts of fine sand and rich, mellow loam well mixed together and sifted to remove all gravel and lumps. Sow as before directed. Covering the box with glass helps to retain the moisture and keeps the temperature even. Be careful not to keep too wet, and when large enough transplant to boxes from one to two inches apart to remain until set in permanent beds.



ABRONIA



AMARANTHUS

ARCTOTIS GRANDIS
ALYSSUM

ANTIRRHINUM



ALYSSUM

AMARANTHUS

Prized for very handsome foliage, whether grown in conservatory or garden. Colors will be more brilliant if in moderately rich soil. Should not be planted in the north before May.

TRICOLOR.—Leaves yellow, red and green; well known as "Joseph's Coat." Hardy annual; 2 feet high. Pkt. 5c.

SALICIFOLIUS.—Known as "Fountain Plant." Pkt. 10c.

CAUDATUS.—(Love Lies Bleeding.)—Produces long, drooping chains of brilliant colored flowers. Pkt. 10c.

MIXED VARIETIES.—Pkt. 5c; ¼ oz. 10; oz. 30c.

ANTIRRHINUM

GIANT FLOWERED.—Most beautiful new class, having all the finest colors and markings known in the old varieties, together with several new shades. Flowers are of immense size and produced in long spikes, 1 to 2 feet high, almost as large and beautiful as gladiolus, blooming continuously. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

DWARF MIXED.—Smaller than the giant type. Desirable for open planting. Flowers large, open and of many shades. Pkt. 10c; ¼ oz. 30c; oz. \$1.00.

SWEET.—Has little white flowers useful for small bouquets. Its fragrance, while sufficiently pronounced, is very delicate. Makes a pretty border and is one of the best plants for a basket or pot. Pkt. 5c; ¼ oz. 10c; oz. 25c.

LITTLE GEM.—The plants are very dwarf and remarkably uniform in growth; only 3 or 4 inches high and each spreads so as to completely cover a circular space fully 12 inches in diameter. Pkt. 10c; ¼ oz. 20c; oz. 50c.

LILAC QUEEN.—A new color in Alyssum which will be very attractive and popular with those who desire a delicate blue. Low growing. Pkt. 10c.

AGROSTEMMA

A hardy plant introduced from Russia. Blossoms similar to pinks on long, slender stems. Suitable for border plants; fine for bouquets or cemetery. Mixed colors. Pkt. 5c.

ASPERULA

AZUREA SETOSA.—Is a hardy, dwarf growing little annual, producing an abundance of small, light blue, sweet-scented flowers. Fine for bouquets. Pkt. 5c; ¼ oz. 10c; oz. 25c.

AGERATUM

BLUE PERFECTION.—A great improvement over the common blue ageratum. Flowers larger and of a deeper blue. Blooms profusely; striking for beds or borders. Pkt. 10c; ¼ oz. 25c.

MEXICANUM.—(Blue.)—Suitable for beds; blooms long time; largely used by florists; start seeds early. Pkt. 5c; ¼ oz. 15c; oz. 40c.

ALBIFLORUM.—Like above, only white. Pkt. 5c; ¼ oz. 15c; oz. 45c.

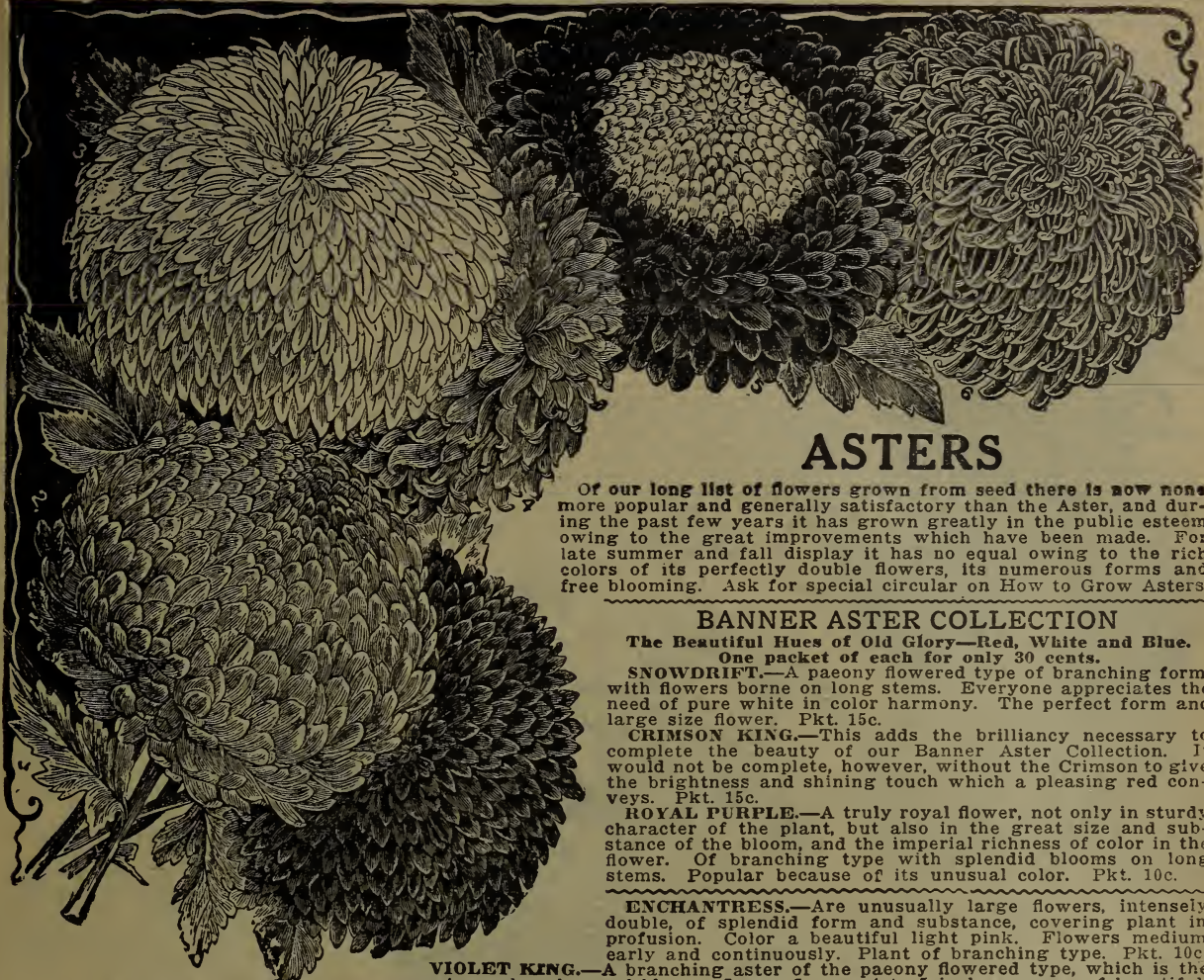
ARCTOTIS GRANDIS

This is a remarkably handsome annual which forms much-branched bushes about 2 feet high. The foliage is soft and downy and of a whitish color; its flowers, borne on long stems, rising well above the foliage, are large and showy; the surface, embellished with a narrow yellow zone at base; reverse of petals lilac-blue; disc is light blue with slightly projecting white stamens. Pkt. 10c.

AMBROSIA

(Perfume Plant.)—Long spiral stem with abundant round, greenish-yellow buds and blossoms. Very fragrant. Fine for bouquets or floral work. Pkt. 10c; ¼ oz. 25c.

YOU WILL BE WELL PLEASED WITH OUR CHOICE FLOWER SEEDS. THEY ARE THE VERY BEST OBTAINABLE



ASTERS

Of our long list of flowers grown from seed there is now none more popular and generally satisfactory than the Aster, and during the past few years it has grown greatly in the public esteem owing to the great improvements which have been made. For late summer and fall display it has no equal owing to the rich colors of its perfectly double flowers, its numerous forms and free blooming. Ask for special circular on How to Grow Asters.

BANNER ASTER COLLECTION

The Beautiful Hues of Old Glory—Red, White and Blue.

One packet of each for only 30 cents.

SNOWDRIFT.—A paeony flowered type of branching form, with flowers borne on long stems. Everyone appreciates the need of pure white in color harmony. The perfect form and large size flower. Pkt. 15c.

CRIMSON KING.—This adds the brilliancy necessary to complete the beauty of our Banner Aster Collection. It would not be complete, however, without the Crimson to give the brightness and shining touch which a pleasing red conveys. Pkt. 15c.

ROYAL PURPLE.—A truly royal flower, not only in sturdy character of the plant, but also in the great size and substance of the bloom, and the imperial richness of color in the flower. Of branching type with splendid blooms on long stems. Popular because of its unusual color. Pkt. 10c.

ENCHANTRESS.—Are unusually large flowers, intensely double, of splendid form and substance, covering plant in profusion. Color a beautiful light pink. Flowers medium early and continuously. Plant of branching type. Pkt. 10c.

VIOLET KING.—A branching aster of the paeony flowered type, which is the most popular shape of bloom. Large flowers 4 to 5 inches across, of beautiful, rich, violet purple color. Per packet 10c.

BIG SIX ASTER COLLECTION

One packet each of the six beautiful varieties illustrated above for 45c.

LAVENDER GEM.—(No. 2.)—The daintiness of the lavender color delights the eye, while the perfect form and lovely type of the bloom itself makes the Lavender Gem Asters cherished among all lovers of asters. Pkt. 10c.

CARDINAL.—(No. 1.)—A type of branching aster producing immense large flowers of cardinal red on strong, upright stems. Unexcelled as a show flower, either in beds or as cut flowers. Per packet 10c.

PURITY.—(No. 3.)—A beautiful and distinct variety and the best white; of refined and faultless form and very freely produced. Fine for pot culture. Per pkt. 15c.

DAYBREAK.—(No. 4.)—Of the most beautiful delicate shade of shell pink. Show at their best when mingled with darker shades. Of branching type, producing blossoms of perfect shape on long stems. Per pkt. 10c.

CROWN.—(No. 5.)—Center of each flower white; surrounded by broad margin of color—crimson, rose, violet, etc.; flowers are large, freely produced. Beautiful and showy. Mixed colors. Pkt. 10c.

CREGO.—(No. 6.)—A new strain of chrysanthemum flowered asters. Combine the splendid coloring and shading of the Marvel type with the unique form and distinctness of the Harlequin and quilled varieties. Mixed colors. Pkt. 15c.

VARIOUS TYPES OF ASTERS IN MIXTURES

IMPROVED BRANCHING.—This is the most popular florists' strain. It is also a popular type for outdoor growing and is sold in greater quantity than any other. We can furnish it in the following colors:

White	Pink	Lavender
Rose	Crimson	Purple
Carmine	Dark Violet	Mixed colors

Each per pkt. 10c; ¼ oz. 40c; oz. \$1.25.

One packet each of eight separate colors of this splendid type for 60c.

SEMPLER'S BRANCHING.—Flowers are large and double, borne on large, stiff stems. A splendid low priced strain of the branching type. Mixed colors. Pkt. 5c.

GIANT COMET MIXED.—Shape differs from all others, resembling the Japanese chrysanthemum. The flowers are from 3 to 4½ inches in diameter, perfectly double. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

MIKADO.—Immense size with curled and twisted petals. A special strain from Giant Comet stock that is very attractive and popular. Mixed rose and white. Pkt. 15c.

BETTERIDGE'S QUILLED.—Perfectly double, tube or quill shaped petals; valuable for bouquets and bedding. A splendid type and one that will appeal. Mixed colors. Pkt. 10c.

QUEEN OF THE MARKET.—This is generally conceded to be the best early type of aster. They usually bloom two weeks in advance of the ordinary branching types. Rather dwarf and of spreading habit. Mixed colors. Pkt. 5c, ¼ oz. 30c, oz. \$1.00.

ROYAL MIXED.—This is our choicest mixture of types and colors, made from named varieties and specialties in high grade asters. It will produce the widest range of colors and the strongest and most vigorous plants. Mixed in our own establishment to safeguard its quality. Pkt. 10c; ¼ oz. 40c; oz. \$1.25.

PERFECTION MIXED.—(Truffant's Improved Paeony Flowered).—A favorite; flowers large and almost perfectly round, incurved petals. Really choicest strain which we offer as a low priced mixture of this form. Pkt. 10c.

FINE MIXED.—Mixture of varieties and colors from the fields of the growers. Good seed at a low price. Flowers of many forms and sizes, and this feature makes it very desirable. Pkt. 5c; ¼ oz. 30c; oz. \$1.00.

SINGLE FLOWERING MIXED.—This plant bears a mass of star-shaped flowers. Pkt. 10c.

PERENNIAL MIXED.—Single flowering, hardy, herbaceous plants. If sown early will flower first season. Pkt. 10c.

AQUILEGIA

(Columbine).—Too much praise cannot be given to these elegant, free-flowering and deservedly popular hardy plants; bloom profusely through spring into early summer. Hardy perennial.

LONG SPURRED HYBRIDS.—A much more robust species, both in plant and flower, than the ordinary kinds. Colors show wide variations and beauty. Splendid, showy, lasting flowers for interior. Pkt. 15c.

CHRYSANTHA.—The beautiful large flowered variety. Very showy and satisfactory. Pkt. 10c.

COERULEA.—Flowers very large, violet, blue and white. Seed in mixed colors only. Pkt. 10c.

DOUBLE VARIETIES MIXED.—A fine assortment. Per pkt. 10c.

AFRICAN GOLDEN DAISY

(*Dimorpotheca Aurantiaca.*)

This showy annual comes from South Africa. It is so profuse in bloom, so brilliant in color, so useful for decoration and so easily grown that it is becoming a great favorite everywhere. Blossoms 2 to 3 inches in diameter, a peculiarly rich, glossy orange gold color, produced quickly on sturdy, hardy plants 12 to 15 in. high. A bed of it is truly a splendid show. Pkt. 10c.

HYBRIDS MIXED.—Improved type of the original form in mixed colors. Pkt. 10c.



AFRICAN
GOLDEN
DAISY

MEXICAN BURNING BUSH

One of the very best annual border or hedge plants. Known botanically as *Kochia Scoparia*. Grows quickly from seed in the open ground. Plants of rounded or globe-like form shown in illustration, branch freely. Stems are clothed with slender light green leaves. In the fall the ends of the shoots are thickly set with small, bright scarlet flowers, the bushy plants resembling balls of fire. Equally showy planted singly to show the round, ball-like form on all sides or grown in continuous rows. Per pkt. 5c; ¼ oz. 20c, oz. 50c.

CHINESE WOOLFLOWER

CELOSIA CHILDSII.—A magnificent garden annual. Its long continued blooming season (July until frost), and its massive bunches of wool-like flowers of glowing color, combine to make it an odd as well as a showy novelty for the general flower garden. Plants grow about 3 ft. high, the bloom starting early with a globular central head of immense size, while numerous branches are sent out, each bearing a ball of scarlet wool, while each branch produces many laterals which also develop excellent heads of bloom that last until killed by frost and expand with a deepening richness of color to a deep crimson scarlet. Pkt. 15c.



CHINESE WOOLFLOWER



PEERLESS MIXED BALSAMS

BALSAM

A most beautiful annual, and under the old names Lady Slipper and Touch-Me-Not, has always been popular. Flowers are most brilliantly colored, very large and double, rich in colors, ranging from pure white to rich, dark crimson. Pkts contain about 50 seeds.

CAMELIA-FLOWERED MIXED.—Are very double, resembling the camellia in form, of unusual size, perfect shape, and our mixture contains all the best colors. Pkt. 10c; oz. 60c.

PEERLESS MIXED.—A new mixture made up from best foreign and American strains and their beauty is truly marvelous. Flowers are double and all colors. Pkt. 10c; oz. 60c.



KOCHIA BURNING BUSH



VERNON BEGONIA

BEGONIA

Seeds very small, almost microscopic, and should be sown on top of soil in box, pressing soil evenly. Cover with a glass and give partial shade until up.

VERNON.—Comes true from seed. Plants grow rapidly and thrive under our hot summer sun. Fine for bedding. Pkt. 10c.

MIXED VARIETIES.—Excellent varieties of flowering sorts. Pkt. 10c.

BUTTERFLY FLOWER

This large-flowering variety of *Schizanthus* challenges the rare orchids in beauty. Easily grown and makes a bushy plant fairly loaded with rich and various colored flowers. Pkt. 5c.

BRACHYCOME

Also called "Swan River Daisy." Very pretty low-growing plants, fine for borders, rustic work or pot culture, covered during summer with a profusion of cineraria-like flowers. Half-hardy annual. Mixed blue and white. Pkt. 10c.

CALLIOPSIS

Many of our most showy flowers are slighted because they are common and grow anywhere without trouble or care, almost like weeds. One of these is the calliopsis. Were it a new thing it would be considered a novelty of rare excellence.

LANCEOLATA.—New Golden Coreopsis. —One of the most showy hardy perennials grown, forming tall plants two or three feet high, and bearing in great profusion for a long period during the summer, large flowers of bright golden yellow. Unequaled for cutting. Grows anywhere. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

GOLDEN WAVE.—Plant very bushy and compact, reaching 2 ft. in height, covered from July until October with hundreds of beautiful golden blossoms 2 in. in diameter, with small dark centers. It is indeed a wave of gold. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

SINGLE MIXED.—Mixture of annual varieties. Many shades of yellow, red and brown. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

NEW DOUBLE.—A beautiful and charming new type of the annual Calliopsis. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. 50c.

CAMPANULA

CUP AND SAUCER.—A beautiful variety. Bell nearly 4 inches in diameter, presenting form of a saucer, hence its name. Plant is of strong growth, quite as hardy and floriferous as old blue variety, and is elegant and handsome, when in flower blossoms literally hiding plant. Perennial. Mixed colors. Pkt. 15c.

SINGLE MIXED.—A choice mixture of single sorts. Pkt. 10c.

DOUBLE MIXED.—Choicest seed from selected plants. Pkt. 10c.

CANTERBURY BELLS

CAMPANULA MEDIUM.—A very pretty perennial quite popular and well known. Very striking in permanent plantings. Illustrated on page 114. Double, single; mixed colors. Pkt. 10c.



GOLDEN WAVE CALLIOPSIS.



CUP AND SAUCER CAMPANULA.

BROWALLIA

GRANDIFLORA.—Most beautiful of all Browallias. Grow only about 1 ft. high; form dense little bushes covered with abundance of delightful extra large sky-blue flowers. Pkt. 10c.

CALENDULA

Belongs to marigold family. An annual of the easiest culture and quite effective in mass plantings or in beds.

FINE MIXED.—Many nice varieties and when planted together they make a showy bed. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.



BROWALLIA



CALENDULA

CANDYTUFT

All varieties look best in beds or masses; hardy, easy to cultivate, and blooms profusely. Hardy annuals one foot high.

GIANT EMPRESS.—One of the finest varieties. Of very branching habit and when fully grown and covered with its pure white flowers resembles a floral candelabra. Pkt. 10c.

BEST MIXED.—Mixture of all varieties and colors. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

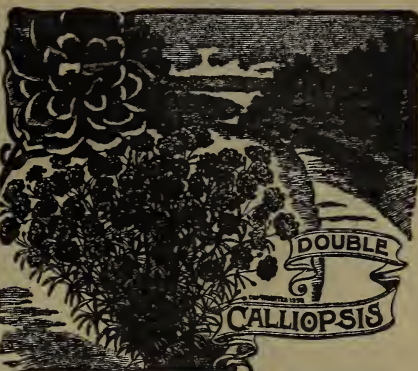
SEMPERVIRENS.—Profuse blooming white perennial. Illustrated on page 115. Early. Pkt. 10c.

CARNATION

Finest of the dianthus or pink family. Very fragrant. Our seed unsurpassed.

DOUBLE EXTRA MIXED.—The best greenhouse varieties. Will produce wide variety in markings and colors. Pkt. 10c.

MARGUERITE.—Mixed. In full bloom about four months after sowing. plants succeed in open garden or pots, and are of vigorous, dwarf, erect growth. Colors, marking, variegations and shading are wonderful. Pkt. 10c.



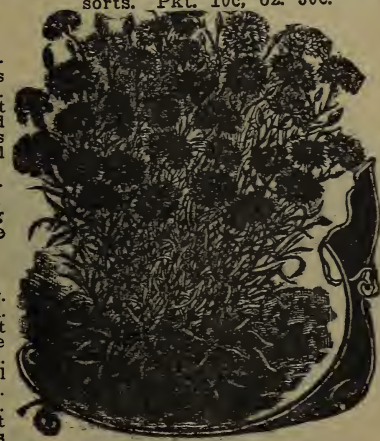
CANNA

Unquestionably one of the best of bedding plants for the American climate. Their handsome leaves combined with their varied and richly colored flowers have an extremely fine effect. Easily raised from seed which should be soaked in hot water for several hours.

FANCY LARGE FLOWERED.—Very large flowering dwarf varieties $3\frac{1}{2}$ feet high. Flower first year from seed. Mixture of finest flowering sorts. Pkt. 10c; oz. 30c.



GIANT EMPRESS CANDYTUFT.



MARGUERITE CARNATIONS



GIANT EMPRESS COCKSCOMB

GIANT EMPRESS.—Is very handsome either for pot plants or specimens in beds, where they excite the curiosity of visitors more than almost any plant that can be grown. The Empress is the finest and most gorgeous variety yet introduced. It is not uncommon for the heads of this variety to measure over twelve inches in breadth; purple combs and dark bronze foliage. Pkt. 15c.

GOLDEN GLOW.—A most attractive novelty. Plants large and produce many handsome flowers 5 to 10 inches in diameter, of a bright, rich golden yellow color. Per pkt. 10c.



COSMOS

A magnificent race of plants growing about 4 to 6 feet high, and in fall literally covered with graceful flowers resembling single dahlias, but better for cutting. As a cut flower for vases or personal wear its grace and beauty is unequalled. Easily raised from seed if sown early.

LADY LENOX.—Beautiful light pink flowers of extra large size. Full, vigorous plants, six to seven feet. Unequaled among annuals for screens and tall borders. Pkt. 10c; ¼ oz. 20c; oz. 50c.

EARLY DAWN MIXED.—Introduced by us and it jumped at once into popularity on account of its extreme earliness, coming in bloom about two months from time of sowing and continuing until destroyed by frost. The plants have fine, feathery, light green foliage and delicate rose, purple, white and lilac flowers. A free blooming plant of easiest culture. Mixed colors. Pkt. 10c; ¼ oz. 20c; oz. 60c.

MAMMOTH PERFECTION.—Flowers double the size of the old flowering cosmos. Seed should be sown early in the house, as they are quite late. Pkt. 5c; ¼ oz. 15c; oz. 45c.



DOUBLE CENTAUREA

CACALIA

COCCINEA.—A handsome, free-flowering little plant; owing to peculiar form of the flower is sometimes called Tassel Flower or Flora's Paint Brush. Scarlet and yellow blooms. Pkt. 5c.

CELOSIA

For summer beds we know of nothing that will produce as showy and brilliant effects.

SPICATA.—A wonderful new variety of Celosia and far different from any ever before seen. It is a handsome annual, forming upright, well branched pyramids, about 2½ feet in height, and producing at the summit of each branch spikes of flowers of a bright rose color when opening, changing to silvery white; fine for garden or growing in pots. Pkt. 15c.

OSTRICH FEATHER.—Beautifully curled crimson plumes. Pkt. 10c.

ALL VARIETIES MIXED.—Pkt. 10c.

COCKSCOMB

Our flower seeds are new crop and will give entire satisfaction.



CELOSIA SPICATA

CHINESE LANTERN PLANT

Showy annual about 18 inches high, bears large red cherry-like fruits each enclosed in enormous balloon-like, semi-transparent calyx, about three inches long, at first light green, gradually changing to yellow, then orange, and finally crimson. Really a large ground cherry. Effective in autumn garden or pots. Better on rather poor soil. Pkt. 10c.

CENTAUREA

CYANUS.—Called Ragged Sailor, Corn Flower, Blue Bottle, Bachelor's Buttons and Bluet. Favorite annual, flowering freely in almost any situation. Height 2 to 3 feet. Mixed colors. Pkt. 5c; ¼ oz. 10c; oz. 30c.

CYANUS DOUBLE.—A most charming sport from the above, well shown in our illustration. Flowers very large and globular. A continuous bloomer, and becoming quite popular. Our mixture contains a great variety of colors. Pkt. 10c.

MARGUERITE.—One of the handsomest flowers ever produced. Large flowers of purest white, deliciously scented, exquisitely lacinated, freely produced. Pkt. 10c; ¼ oz. 20c; oz. 60c.

GYMNOCARPA.—(Dusty Miller.)—The foliage of this variety is finely cut and silvery. It is perhaps the best white leaved plant for bedding. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.

IMPERIALIS MIXED.—A grand improvement on the old favorite Sweet Sultan; long stemmed blossoms 3 to 4 inches across, of graceful, airy effect, and deliciously fragrant. Glistening white, red, blue, lilac, royal purple, etc. Fine for bouquets, vases or as corsage flowers. If cut scarcely opened last ten days. Pkt. 10c; ¼ oz. 25c; oz. 80c.

CHRYSANTHEMUM

The Annual Chrysanthemums are different from the large flowered perennial sorts grown by florists; grow easily from seed; flower freely in summer and fall.

CHAMELEON.—A new and distinct annual variety producing very large single flowers in purple, black, crimson, yellow and copper. Pkt. 10c.

NEW DOUBLE ANNUAL.—A valuable and unique novelty. Extremely variable. It is impossible to describe the beautiful forms produced. A great variety of colors, markings and pencillings. It is very double, semi-double or single, all equally charming. Pkt. 5c; ¼ oz. 20c; oz. 50c.

CLARKIA

A very pretty and desirable hardy annual about 2 feet high. Flowers are white, red, purple, etc., borne in profusion during summer. **SINGLE AND DOUBLE MIXED.**—Pkt. 5c.

COLEUS

Very decorative border plant. Pkt. 150 seeds. **FINE MIXED COLORS.**—Pkt. 20c.

RAINBOW.—Finest; sure to please. Pkt. 25c.



DOUBLE ANNUAL CHRYSANTHEMUMS



DAHLIA

The dahlia is well known, but few are aware that if the seed is sown early in the spring they will bloom the first year.

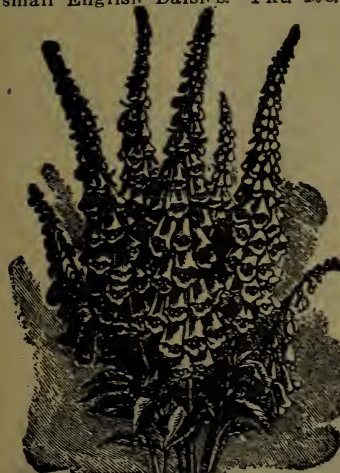
BEST DOUBLE MIXED.—Our seed is of the finest strain, and produces large, very double flowers of richest shades. Pkt. 15c.

SINGLE MIXED.—Pkt. 10c.

DAISY

Popular perennials, blooming the first year from seed; very handsome for borders or pots.

BEST DOUBLE MIXED.—Low growing sorts for massed beds or borders. Usually known as the small English Daisies. Pkt. 10c.



FOXGLOVE

A showy perennial; a general favorite and now planted extensively for permanent backgrounds, borders and clump effects. Splendid for harmonizing with plantings of shrubs in any garden soil.

GLOXINIAFOLIA.—Is an improved strain growing 4 to 5 feet high, producing large gloxinia-like flowers of many shades and markings. More robust than ordinary sorts. Pkt. 10c.

MONSTROSA MIXED.—A distinct type, the striking feature of which is that a large bell-shaped blossom tops each spike. Pkt. 15c.

BUSH DOLICHOS

DWARF WHITE.—Bush form of well known Hyacinth Bean, which is popular as a summer climber. This form grows two to three feet high, bears blossoms similar in appearance to sweet pea, but borne on long racemes; pure white and very lovely. Followed by ornamental pods. Pkt. 10c; oz. 40c.

ESCHSCHOLTZIA

(California Poppy)

The California poppies are popular because they are so easy to grow, so brilliant in color, and bloom under most trying conditions. They have been greatly improved in recent years, and are truly beautiful.

CRIMSON.—This choice novelty is the result of nine years' careful selection from a chance sport in a bed of yellow Eschscholtzia, the state flower of California. Flower bright, handsome crimson. Easily grown, producing a profusion of flowers. Pkt. 10c.

GOLDEN WEST.—A giant flower of a rich golden yellow color, some specimens having a dark orange blotch in the center. This variety and the crimson mentioned above make a splendid show when mixed and sown together. Specially effective in large beds. Pkt. 10c; ¼ oz. 25c; oz. 50c.

SINGLE MIXED.—The common California poppy. Fine form, deep golden color, and very popular for sowing in masses. Pkt. 5c; ¼ oz. 10c; oz. 35c.

HUNNEMANNIA.—"Bush Eschscholtzia." Flowers are cup shaped and about 3 in. in diameter. Color clear, bright yellow, having a satiny sheen over the surface. Sow thick as it generally germinates only about 50 per cent. Pkt. 10c.

ELECTRIC LIGHT PLANT

A sturdy, bushy plant of about 4 feet, covered constantly with large spikes of flowers 6 to 9 in. long which are pure white at base and range from rose to bright red at apex. Grows readily from seed, which should be planted in open ground early in spring. Showy and ornamental for clumps or massing. Pkt. 10c; ¼ oz. 25c; oz. 75c.

EUPHORBIA

VARIEGATA.—Are strong growing annuals suitable to mix with beds of tall growing plants and also for mixed borders; flowers inconspicuous; foliage, however, is ornamental, veined and margined white. Commonly known as "Snow on the Mountain." Pkt. 5c.

FOUR O'CLOCK

(Mirabilis.)—The Marvel of Peru, or Four O'Clock. One of the most brilliant, showy annuals. Planted in beds or masses, their compact growth, rich, glossy leaves and profusion and diversity of bloom, present a gorgeous sight in the afternoon.

MIXED COLORS AND VARIETIES.—Contains a fine assortment of colors and is always satisfactory. Pkt. 5c; oz. 20c.

DIANTHUS

The Dianthus, or Chinese Pink, is one of our most useful plants, furnishing abundance of gay and pretty flowers until frozen and covered by drifting snows. Quite as pretty for pot plants in the house as carnations. Plants from seed grow and bloom very quickly.

ORIENTAL OR JAPANESE MIXED.—Markings and colors are rich and brilliant, form of blossoms dainty and beautiful. A few blooms will be solid colors but most of them will show wonderful variations, striped, blotched and banded. Colors range from white to deep crimson and maroon and flowers are produced profusely and continuously. More fragrant than older type of Dianthus. Pkt. 10c; ¼ oz. 30c; oz. 80c.

FIREBALL.—A beautiful, very dwarf and compact-growing pink, only 10 to 15 inches in height. Flowers are perfectly double and color a rich velvety blood red. Plants begin to flower shortly after coming up and continue till severe frost. Effective for garden beds. Pkt. 10c.

SNOWBALL.—Fit companion to above. Flowers large, pure white, double, finely fringed, perfect form. Makes a fine plant for borders of beds and is splendid in mixed bouquets by reason of its fragrance. Pkt. 10c.

HEDDEWIGI.—Finest selected double mixed. Colors vary from deep, velvety crimson to soft, satiny rose. One of the most showy. Pkt. 10c; ¼ oz. 30c; oz. 80c.

DOUBLE DIADEM PINK.—A superb large double flower, is hieroglyphically marked, like the original Chinese pinks, in the middle down to the base of each petal; magnificent in color and variety. Pkt. 10c.

CHINENSIS.—(Double Chinese Pink.)—Blossoms in clusters. Flowers very double and of wide range in color. Mixed. Pkt. 5c; ¼ oz. 15c; oz. 50c.

MIXED VARIETIES AND COLORS.—Pkt. 5c; ¼ oz. 15c; oz. 50c.

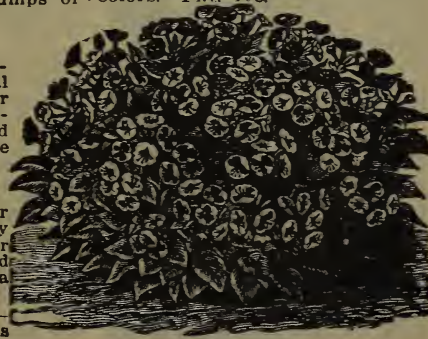


ELECTRIC LIGHT PLANT

GODETIA

Handsome, showy annual about one foot high, of dwarf, compact growth; bear freely flowers 3 to 4 in. across, of exquisite colors.

MIXED VARIETIES.—All colors. Pkt. 10c.



FOUR O'CLOCK

GERANIUM

GOOD VENTURE.—A greatly improved strain of geranium seed grown by a specialist for our trade; easily raised from seed, which will frequently reward the cultivator with charming new varieties. Plants from seed started early in the house bloom the first summer in the garden. Plants grow rapidly, are strong and thrifty. Pkt. (about 40 seeds), 15 cents.

CHOICE MIXED.—This seed saved from nice varieties, mixed. Pkt. 10c.

GRASS PINKS

(*Dianthus Plumarius*.)

The hardy and pretty clove scented flowers so much loved by our grandmothers. Their fragrance quickly noticed in passing yards where grown. Colors range from pure white to dark pink, mostly a clear, delicate pink. A hardy perennial, fine for borders. Double and single. Pkt. 10c; ¼ oz. 35c.

DOUBLE CLOVE PINKS.—A new type that grows more compact than old fashioned kind and has much wider range of shades and richer coloring. Blooms two weeks earlier than old type. Pkt. 10c; ¼ oz. 35c.



GOOD VENTURE GERANIUM

GOLDEN ROD

A well known general favorite that grows wild on our western prairies. It has been adopted by New York as state flower. Is admired by all, and is easily grown from seed. Pkt. 5c.

ICE PLANT

A handsome and curious plant for hanging baskets, rockwork and vases. The leaves and stems appear as though covered with crystals. Peculiarly brilliant in sunshine. Flower white and pink. Pkt. 5c.



EVERBLOOMING ANNUAL HOLLYHOCK



GRASS PINKS

HOLLYHOCKS

No flower is more showy or admired. Start in a box in the house in March; about May 1st transfer to a permanent place. Produce elegant spikes.

EVERBLOOMING ANNUAL.—A most showy flower for massing, borders and backgrounds. Started in the house in March or April and set out in May it blooms in July. Blooms until killing frosts in fall. Sown in the open ground in May it blooms in August. Of vigorous growth, from 5 to 8 ft. high, and stalks are fairly loaded with large flowers, sometimes 5 inches across. Colors, crimson, black, scarlet, etc., some beautifully veined and marked; double, semi double, single. Pkt. 10c; ¼ oz. 35c; oz. \$1.

CHATER'S PRIZE DOUBLE MIXED.—Magnificent double flowers 3 to 4 in. across, of the brightest colors; flowers quite as beautiful and perfect as those of the camellia, massed completely around spikes. A mixture of all colors and shades. Pkt. 10c; ¼ oz. 50c; oz. \$1.50.

DOUBLE FLOWERED PERENNIAL TYPES IN SOLID COLORS.—White, yellow, pink and bright red. Either color, pkt. 10c; 1 pkt. of each of the four colors 30c.

ALLEGHENY MAMMOTH FRINGED.—An entirely distinct variety. Flowers are single, double and semi-double, of fine form and rich colors. Splendid for borders or the hardy garden. Pkt. 10c.

GAILARDIA

The Blanket Flower. Exceedingly beautiful annuals, making very showy plants, 1 to 2 feet high. Grown in mass are especially effective.

PERFECTION.—Improved sort, producing a very double flower, round as a perfect ball, in most varied and pleasing colors. Flowers are borne on long, slender stems and when cut keep for over a week. Pkt. 10c; ¼ oz. 20c; oz. 50c.

GRANDIFLORA.—A splendid new perennial variety, with very large flowers, dark crimson centers, marked with rings of many brilliant colors; makes a nice showing in the yard. Pkt. 10c; ¼ oz. 20c; oz. 50c.



GAILARDIA GRANDIFLORA

GYPSOPHILA

Delicately pretty little flowers, sometimes called "Baby's Breath" or "Angel's Breath." Graceful and easily grown in open ground.

ELEGANS.—Mixed colors. Pkt. 5c.

PANICULATA.—White. Pkt. 10c.

HIBISCUS

Of easiest culture, with large, exceedingly showy blossoms. Hardy annual, 2 feet high.

CRIMSON EYE.—A robust grower; dark red stems and foliage. Flowers often measure 20 inches in circumference, pure white, with large spot of deep velvety crimson in center. It blooms first year from seed and succeeds anywhere. Pkt. 10c.

GOLDEN BOWL.—Enormous flowers 5 to 6 inches across, canary color, with large, black center. Pkt. 10c.

MEHAN'S MARVEL MALLOW.—A magnificent new strain of hardy hibiscus producing wonderful flowers 8 to 10 in. in diameter. Colored from pure white to fiery red. Splendid for permanent planting. Easily grown from seed. Pkt. 10c; ¼ oz. 40c; oz. \$1.

HELIOTROPE

A great favorite with all lovers of flowers for their beauty and fragrance; are well suited for beds or borders, where they will bloom in summer and may then be carefully potted and cut back for winter blooming.

CALIFORNIA MAMMOTH.—A grand new variety producing immense flowers. Pkt. 15c.

MIXED VARIETIES.—Common sorts. Pkt. 10c.



NEW
MAMMOTH
FLOWERING
HELIOTROPE

LARKSPUR

One of the most useful of annual flowers for beds or borders or for the informal garden. Flowers are borne in compact spikes, color red, white and blue, and are showy and desirable in any situation. Sow early in open ground.

DWARF ROCKET.—Grow about two feet in height. Mixed colors. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

TALL ROCKET.—Three to four feet high, adapted to either borders, beds or among perennial plantings. Pkt. 5c; $\frac{1}{4}$ oz. 15c;

PERENNIAL LARKSPUR

BUTTERFLY.—A distinct variety, growing about 18 inches high, with fine feathery foliage, and producing freely spikes of large blossoms of intense gentian blue. Pkt. 10c.

GOLD MEDAL HYBRIDS.—A splendid strain. Immense spikes 2 to 3 feet, with large flowers mostly of light blue shades. Pkt. 15c.

ELATUM HYBRIDIUM.—The perennial larkspurs are most showy and useful in permanent plantings, as they produce splendid spikes of flowers all summer. Perfectly hardy, blooms first year if sown early. Mixed colors. Pkt. 10c.

LANTANA

BRAZILIAN BEAUTY.—Specially fine strain consisting of a mixture of choicest hybrid sorts. Pkt. 10c.

MIXED COLORS.—Greenhouse perennial. Fine bedding or pot plant; grows from seed. Pkt. 5c.

LOBELIA

ERINUS.—Handsome trailing annual. Flowers blue. Fine in vases and hanging baskets. Pkt. 10c.

COMPACTA.—A dwarf variety. Flowers darker hue than above and cover plant; fine for carpet bedding or border. Pkt. 10c.

LINUM

GRANDIFLORUM RUBRUM.—(Scarlet Flax.)—A most showy annual for flower beds and masses; crimson scarlet flower. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

PERENNIAL.—A beautiful hardy perennial sending up numerous stems, clothed with a small, almost hair-like foliage. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 80c.



LARKSPUR

MARIGOLD

A general favorite for planting in mixed beds and informal gardens, as they produce such great numbers of brilliant colored flowers that they are always a bright spot wherever planted.

PRIDE OF THE GARDEN.—These are greatly improved in size and doubleness of flowers. Double mixed. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

DWARF FRENCH.—Double mixed. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 30c.

LEMON QUEEN.—A charming new variety producing large bell-shaped flowers of clear, lemon or canary yellow color, making them closely resemble large double yellow dahlias, only produced more abundantly on longer stems. It blooms continuously. Pkt. 5c.

ELDORADO.—Immense flowers, 9 to 14 inches around; double; primrose, lemon, orange and golden shades. 3 feet high. Pkt. 10c.

MYOSOTIS, OR FORGET-ME-NOT

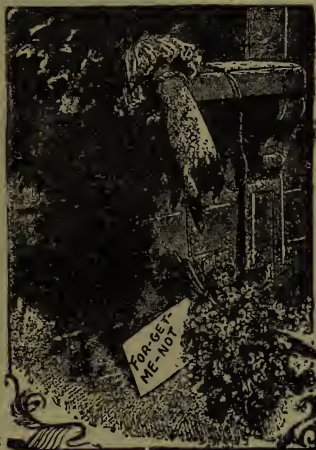
The dainty little blue Forget-Me-Not is always appreciated, as it always involuntarily forces to our mind kindly remembrance.

PALUSTRIS.—True Forget-Me-Not. A perennial. Blooms first year from seed. Pretty plants with neat little star-shaped blue flowers. Pkt. 10c.

VICTORIA.—The best variety for pot culture. Of dwarf, globular habit; beautiful sky-blue flowers with center double. Pkt. 10c.



NICOTIANA

**MIGNONETTE**

SWEET SCENTED.—The fragrance of the Mignonette makes it indispensable for bouquets and cutting. Sow seed early and they will commence blooming the first of June. Pkt. 5c; oz. 25c.

GOLIATH.—Foliage rich green, flowers brighter red color than any other sort. Immense spikes. Splendid variety of sweet fragrance. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

ALLEN'S DEFIANCE.—Valuable variety with mammoth spikes 12 to 15 inches long, more fragrant than any other. Florets of immense size and the cut flower often keeps three weeks. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 60c.

MACHET.—Makes a pretty and fragrant pot plant. Distinct variety of great merit. Vigorous dwarf growth with very large spikes of deliciously scented red flowers. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

NICOTIANA

AFFINIS.—Plant is covered with large, white, star-shaped flowers which, after being cut, remain perfect a week. A few plants perfume the whole garden. Pkt. 10c.

SANDERAE HYBRIDS.—Beautiful rosy carmine color and blooms freely. These new hybrids have also various shades of purple, pink, red, salmon, violet and white. Grows about 2 feet high, branches freely and loaded with flowers open all day. Sow seeds early in the house and transplant in May to open ground. Mixed colors. Pkt. 10c.

NIGELLA (Love in the Mist)

MIXED COLORS.—Hardy annuals about 1 ft. high; fine cut leaves and handsome flowers. Blooms early. A very pretty flower. Double flowers, blue white and purple, beautifully veiled with feathery, delicate foliage. Pkt. 5c; $\frac{1}{4}$ oz. 10c; oz. 25c.

MISS JEKYLL.—A large and profusely blooming variety with bright sky-blue flowers and fine fern-like foliage. Taller than most kinds. Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 60c.

OENOTHERA (Evening Primrose)

Blossoms fully expand only toward and during evening. Three to four inches across. A hardy annual. Mixed white and yellow. Pkt. 5c.



LOBELIA



ELDORADO MARIGOLD



MACHET MIGNONETTE



MISS JEKYLL NIGELLA

LOVELY PANSIES

Pansies are a specialty with us, and we use the greatest care in growing and importing the best strains. Note directions for growing pansies at the bottom of this page. Packets contain 100 to 250 seeds.

PRETIOSO.—(No. 3.)—A new strain of the world's best grower, imported only by us, and offered to our friends under special arrangement. It contains widest range of colors, most diversified markings, and velvety substance of any mixed pansies now offered by the seed trade. They are great, large, fine blooms, satiny finish brightest colors, which really shine with lustre. Have been bred up for robust habit and heavy growth. It requires strong plants to produce large blooms and lots of them. Nature alone brings forth the beauty of the flowers, and you must grow the Pretioso pansy to realize its matchless splendor. Pkt. 15c; ¼ oz. \$2.50; oz. \$8.00.

NEW RAINBOW.—(No. 4.)—We consider the name appropriate owing to its beautiful iridescent colors. In a good-sized bed are a hundred different varieties but not a poor one nor an inferior. Flowers of large size and perfect in form, nearly circular and have a rich, velvety appearance; will delight "pansy fanciers." Pkt. 15c; ¼ oz. \$3.00; oz. \$10.00.

AMERICAN GIANT.—(No. 6.)—A strain of pansies superior to any in existence. This extraordinary fine strain is of such strong, robust, luxuriant growth and produces such magnificent immense flowers, almost a superior race. Comprise practically all shades and markings known in pansies including the Giant Bugnons, Cassier's and the large-flowered sorts from France, England, Holland and other countries. Also a strain of curled and ruffled pansies which appear double. Pkt. 25c; ¼ oz. \$4.00; oz. \$12.00.

FINE MIXED.—Consists of many good sorts. Pkt. 10c; ¼ oz. 75c, oz. \$2.50.

MAMMOTH BUTTERFLY.—(No. 5.)—A pansy of matchless forms, colors and markings with flowers half as large again as ordinary pansies. Pkt. 15c

MASTERPIECE.—(No. 7.)—(Also offered under the names Superbissima and Germania.)—This superb new pansy is distinct from all others in form of flowers, the border of every petal being conspicuously undulated and curled, giving flowers appearance of a double pansy. Flowers are very large. Pkt. 15c.

GIANT TRIMARDEAU.—(No. 2.)—Flowers of very large size, some have measured 4 inches in diameter. Each flower marked with three large blotches or spots and stands well above foliage. Choice mixed colors. Pkt. 15c; oz. \$6.00.

ATTRACTIVE OFFER

An opportunity to procure the choicest types of pansies separately, or if you mix them yourself you are assured of the very widest range. One packet each of the 7 illustrated mixtures, the finest assortment ever offered, \$1.00.

HOW TO GROW PANSIES

Everyone likes pansies but many fall in growing them from seed and therefore a few simple directions may be of value to our customers.

Pansy seed may be sown in the sitting room, greenhouse or hotbed and will do better where the temperature will run from 65 to 75 degrees; the earlier in the season they are sown the stronger the plants will be. The best way to start pansies, or in fact, any kind of flower seed, is in shallow boxes. Use loose, rich soil, containing about one-third sand, make the surface

perfectly smooth and level, sow seed and press gently down with a smooth board, so as to merely sink it into the soil; over the seed sift fine soil about 1-16th part of an inch in depth; again press gently down with a smooth board and the sowing is complete. Place your box in a pan of tepid water for a few minutes so as to let the water soak up from the bottom the first time. Place box in light, sunny place, and keeping a pane of glass over it will help retain the moisture and keep the temperature even. Leave a little space at one side of box, not covered with glass, for ventilation. Keep moderately moist, and the plants will appear in about ten days.

Transplant to small pots or set the plants three inches apart each way, in shallow boxes, as soon as they have four good leaves, or, if weather is suitable they may be set out in beds 8 to 12 inches apart each way. Beds should be of loose, rich soil and be protected if possible from the noonday sun. If convenient, seed may be sown in the open ground as early in spring as ground can be worked, but the bed should be slightly mulched with straw to prevent drying out.

STRONG AND VIGOROUS PANSY PLANTS OF THE CHOICEST LARGE-FLOWERED MIXTURES ARE OFFERED ON PAGE 107

SPLENDID PETUNIAS

No garden is complete without a bed of elegant petunias. They commence flowering early and continue a mass of bloom throughout the whole season, until killed by frost; are easily cultivated, requiring rich soil and a sunny situation. The single striped, mottled and double varieties have been greatly improved. Double varieties require care and should be started in the house.

ROSY MORN.—A beautiful new petunia of clear rosy pink color, showing great beauty in the informal garden. As easy to grow and as free blooming as the ordinary types. Pkt. 15c.

EMPEROR.—The largest petunias in the list. Monstrous flowers fully five inches in diameter of the bell, and of unsurpassed colors and markings. Very fine for massing or sowing in wild borders. Pkt. 15c.

GIANT FANCY.—The flowers are exquisitely ruffled or fringed on edges, and of enormous dimensions (4 to 5 in. across), unlimited varieties of colors, markings, veinings, blotchings and stripings, in the most grotesque and beautiful combinations. Some colors are rich and gorgeous, others are of lovely delicate shades. Produces very little seed and will always be high in price. Pkt. 25c.

DOUBLE INIMITABLE.—Splendid mixture. Our seed is the best imported stock, and will produce about 25 per cent of fine double flowering plants. Pkt. 25c.

LITTLE PET.—(Howard's Star)—These small flowered, compact growing, free blooming petunias are round, bushy little plants about 8 in. high, covered for months with beautiful flowers which are widely open and always look fresh, bright and beautiful. Most of the flowers have a distinct five-pointed star in the center. Pkt. 15c.

GRANDIFLORA MIXED.—Very large, elegant flowers; a great improvement and fully twice the size of the old sorts, with most beautiful shades of crimson, white, rose, maroon, etc., blotched, striped, veined, marked and fringed. Per pkt. of 200 seeds 15c.

FINE MIXED.—Best of older varieties. Extra fine striped and blotched sorts. Pkt. 5c; ¼ oz. 60c; oz. \$2.00.



PLANT OF DOUBLED PORTULACA

FLOWER OF SINGLE PORTULACA

BRILLIANT PORTULACA

DOUBLE MIXED.—This old favorite is one of the brightest blossoms in the entire list and makes a lovely little plant to cover up the bare spots in beds of taller growing plants. The flowers are double as a rose, brilliant with many shades of color, white, yellow, crimson, scarlet, pink and all blooming at mid-day and of afternoons. The dainty blossoms are splendid to add the little touch of color among the fruits on the dinner table. Pkt. 15c; ¼ oz. 75c.

GRANDIFLORA SINGLE MIXED.—An old favorite sometimes known as rose moss. It forms a brilliant, striking bed of color on bright sunny days, and blooms brightest in the mid-day hours when other flowers are drooping. Very dwarf, low-growing plants, forming a mat on the ground. We offer a splendid mixture. Pkt. 5c; ¼ oz. 25c; oz. 75c.

PENTSTEMON

FINEST MIXED.—Hardy perennial; sown early will bloom first year. Graceful growth; many spikes of Gloxinia-like flowers 2 ins. across; crimson, white, rose, purple, etc., beautifully edged and marked; blooms June to October. Give rich soil and good culture. Pkt. 10c.

PYRETHRUM

GOLDEN FEATHER.—Beautiful golden-leaved foliage plants of special value for borders and ribbon beds. Pkt. 10c.

ROSEUM HYBRIDUM.—Large flowering perennial, flowers resembling cosmos and varying in colors from light pink to deep red with large yellow center in each. Splendid for long-keeping cut flowers. Pkt. 10c.



PENTSTEMON

PALMS

These for centuries past have been exclusively for the rich, the plants usually selling at \$3.00 to \$100.00 each. Are easy to grow from seed.

PHOENIX DACTYLIFERA.—Native of northern Africa; beautiful for pot culture, and very hardy. This palm produces the date of commerce. Pkt. of 10 seeds 10c.

WASHINGTONIA FILIFERA.—It stands dust, dry air and lack of sunshine. Its fan-shaped leaves fringed with long thread-like filaments. Pkt. of 12 seeds 10c.

UMBRELLA PALM.—(Cyperus)—See description and illustration on page 90. Pkt. of 100 seeds 10c.

CHAMAEROPS EXCELSA.—One of the very best plants for house culture in cool climates, and standing ill usage remarkably well. Pkt. of 10 seeds 10c.

SPECIAL GRAND OFFER

One packet of each of the four elegant varieties of Palms mentioned above for only 35c.



PALM

IT IS DESIRABLE TO PURCHASE DOUBLE PETUNIA PLANTS IF YOU WANT THEM ALWAYS TRUE TO NAME AND COLOR.



PHLOX DRUMMONDI

If we could have but one flower for our garden that one would be the Phlox. Its brilliant shades of color, ranging from clear white to brilliant scarlet, make an almost dazzling show; continually in bloom.

The crop of phlox seed is very limited this year.

FIREBALL.—(See Cut No. 1)—Splendid for a showy bed. Color is brilliant, dazzling scarlet, making a beautiful show. Growth is dwarf and compact so that it is fine for bed effect when sown thickly. Pkt. 10c; $\frac{1}{4}$ oz. 50c; oz. \$1.50.

GRANDIFLORA ALBA.—(See Cut No. 4)—Fit companion for Fireball. Flowers are very large, pure white in color and constantly in bloom. A few plants of white always show up well in beds of mixed colors or among darker shades. Pkt. 10c; $\frac{1}{4}$ oz. 50c; oz. \$1.50.

PERENNIAL MIXED.—Splendid hardy plants which bloom continuously after the second year. Pkt. 10c.

FRINGED MIXED.—(Type shown in Cut No. 7)—Very attractive. The flowers are of the most velvety colors and handsomely fringed. Pkt. 10c.

MIXED VARIETIES.—Mixtures of common sorts. Covers a wide range of color and will make a splendid show. One of the most satisfactory items in the catalogue. Pkt. 10c; $\frac{1}{4}$ oz. 50c; oz. \$1.50.

GRANDIFLORA MIXED.—Large-flowering strain. Ideal flower of immense size and beauty. Colors white to nearly black, including pink, red, violet, crimson, purple, yellow blue, scarlet and brown, striped and blended in an indescribable manner. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.25.

PERENNIAL POPPIES

ORIENTAL HYBRIDS.—For brilliancy of color, nothing equals these Oriental Poppies. The flowers are of enormous size, often measuring over 6 inches in diameter; colors range from soft flesh and rose to the most brilliant dazzling scarlet and richest maroon purple. Perfectly hardy perennials, wintering with but little protection. Pkt. 10c.

ICELAND.—Flowers the first year from seed. Colors from purest white to deepest orange scarlet; delicious fragrance. Pkt. 10c.



POPPIES

This grand old flower surprises us with its forms, sizes and colors. The varieties are annuals, always popular because so easy to grow and so brilliant and attractive in any situation.

ROSY MORN.—Is really superb. Flowers are extremely double and of good size, forming perfect balls of unique and beautiful shade of rose—a new and distinct color; of easiest possible culture. Pkt. 10c.

AMERICAN FLAG.—Flowers extra large, very double, snow white, bordered with scarlet, thus making an extra choice, very showy variety, that should be popular. Pkt. 5c.

DOUBLE CARNATION.—Splendid assortment of best double carnation flowered sorts. The most popular variety Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

SANTA ROSA MIXED.—Improved from Shirley poppy; unusually large flowers of remarkably clear colors, including new striped salmon and blush shades. Petals beautifully crumpled. Pkt. 5c; $\frac{1}{4}$ oz. 25c; oz. 75c.

PAEONY FLOWERED.—Is a robust variety 2 ft. high, bears very large flowers, round, smooth, double, and of exceeding brilliancy. Mixed colors. Pkt. 5c.

ANNUAL VARIETIES MIXED.—Single and double. Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 40c.

PRIMROSE

CHINESE.—Desirable plants for growing indoors, being in almost constant bloom all winter, and if transferred to the garden will bloom nearly all summer. Though perennial, new plants will flower more freely. Start under glass. Mixed colors. Pkt. 25c.



RAINBOW CORN

(Striped Japanese Maize).—Offered as a novelty by some seedsmen. An ornamental foliage plant of rapid growth, giving immediate effect, and attractive in any garden. Grows 5 to 6 feet high and has alternate foliage, the leaves being very long and 2 to 3 inches wide. Variegation does not begin to show until the fourth or fifth leaf, when leaves become striped with broad bands of white, chapping soon to narrow stripes of alternate clear white and brightest green, occasionally showing faint tinges of pink or rose color at the edges. The leaves are waxy and gracefully recurved. Desirable for groups or ribbon beds, or back border to a lawn. Illustration which is shown herewith does not do it justice. Pkt. 5c, oz. 15c.



STRIPED
JAPANESE MAIZE

SALPIGLOSSIS

Strong, bushy plants about 18 inches high, bearing throughout the season large flowers 3 to 4 inches across, of many beautiful colors.

NEW VARIEINED.—The surface is soft and velvety and wealth of color marvelous. The colors range from pure white to dark yellow, dark red and purplish black, including light and dark blue, velvety plum color, maroon, crimson, dark brown, golden and lemon yellow, white, dark purple, black, brilliant scarlet, with all the shades between beautifully veined and mottled. Blooms all summer and till frost. Pkt. 10c.

SALVIA

SPLENDENS.—One of the most brilliant of flowers; it thrives in any light, rich soil; often called flowering sage. Free bloomers. Brilliant scarlet. Is very fine. One of the most satisfactory bedding plants. Pkt. 10c; ¼ oz. 75c.

MRS. C. N. PAGE.—Dwarf, free blooming sort. Much earlier than Splendens and brighter color. Makes a brilliant show; specially fine for bordering beds. Introduced by us. Pkt. 15c; ¼ oz. \$1.00.

SCABIOSA

LARGE FLOWERED MIXED.—Very handsome border plant, producing double flowers in a variety of shades and colors; splendid for bouquets; rapidly becoming popular because of striking beauty. Pkt. 5c; ¼ oz. 15c; oz. 50c.

SENSITIVE PLANT

Very pretty and curious plant, its leaves closing when touched. Seeds start slow and it is best to start them in boxes; cover shallow and see they do not dry out; it makes a good house plant for the winter and pleases the children. Pkt. 10c.



SHASTA DAISY

FAIRY ROSES

These remarkably beautiful little roses are very easily grown from seed. The roses are only about an inch across, usually semi-double, and seldom single; they are borne in large clusters and are of many colors. What is most remarkable, these Fairy Roses grow only 10 to 15 in. high, blooming from May until frost. Nice for pot plants. Pkt. 10c.



RICINUS CAMBODGIENSIS

RICINUS

Castor oil plant. Stately foliage plants. Make a very handsome appearance on the lawn. Said to keep out moles.

CAMBODGIENSIS.—A beautiful plant 8 feet high, of most stately, majestic, tropical appearance. Has large palm-like leaves of darkest reddish maroon, covered with a bright bronzy luster, while the main stalk and leaf stems are ebony black. Leaves have large red veins. Seed pods fiery red. Pkt. 5c; oz. 25c.

ZANZIBARENSIS.—Grows to a height of 12 to 14 feet, with leaves 2 to nearly 4 feet across. The different varieties included in our mixture have light and dark green leaves and some coppery bronze, changing to dark green, with reddish ribs. Pkt. 5c; oz. 15c.

SANGUINEUS TRICOLOR.—Blood red stalk; very attractive, giving tropical effect in clumps or screens. Pkt. 5c; oz. 15c.

MIXED VARIETIES.—Mixtures of the above and many other choice sorts. Pkt. 5c, oz. 10c.

COMMON.—The ordinary Castor Bean. Pkt. 5c; oz. 10c; lb. 50c. Ask for price in quantity.



MRS. C. N. PAGE SALVIA

SCABIOSA

SHASTA DAISY

ALASKA.—Perennial, blooming better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistening whiteness, and borne on single, stiff, wiry stems nearly two feet long. Pkt. 10c.

STOCKS

Sometimes called Gilliflowers. Easily grown, and they deserve a place in every garden.

PERPETUAL WHITE.—(Princess Alice or Cut and Come Again).—Strong growth, of fine branching habit, and if sown early will bloom from May to November. Flowers large, pure white. Pkt. 15c.

PERPETUAL MIXED.—A mixture of colors of the continuous blooming types of perpetual stocks. Sown in March or April they begin flowering in July and continue until frost. Pkt. 10c.

EARLY LARGE FLOWERING DWARF.—Very popular. Our mixture contains a great variety of colors. Pkt. 10c; ¼ oz. 40c; oz. \$1.00.



PERPETUAL WHITE STOCKS

GIANT FLOWERED SWEET PEAS

The sweet peas here offered are of the great-flowered or grandiflora class, and are grown for us by the best specialists in America. The stocks from which they are produced are not surpassed by anyone, and we know from the reported experience of our friends that the results from planting our sweet peas are most satisfactory. We ask only to be judged by results and solicit your orders with full confidence that you will be pleased. There is a reason. We have discarded all poor and inferior sorts and offer what we know to be the cream of the list, chosen from personal inspection.

IMPERIAL MIXED.—Sixty of best sorts carefully selected so as to get the proper proportion of each color in assortment. Makes the choicest mixture ever offered. Illustration shows bunch of various colors and we are sure our customers will be pleased with them. Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

CALIFORNIA GIANTS.—Tourists from the east are always greatly surprised and delighted with the Sweet Peas which bloom so freely in California. One of the best growers has, during the past few years, been selecting seed from the specially large flowers and we now offer it in a splendid mixture. No matter what other flowers you grow, give these a trial. Pkt. 10c, oz. 25c, ¼ lb. 75c.

GRANDIFLORA MIXED.—This is a mixture from the growers and is made from surplus stocks of varieties and seeds as are grown in trial plots together with the seeds from fields of mixed colors. Contains a wide range both of new and old varieties illustrated on this page. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

Twenty Choice Named Varieties

AMERICA.—(No. 9.)—Clear scarlet on a white ground. Pkt. 10c, oz. 20c, ¼ lb. 60c.

AURORA.—(No. 6.)—Extra large flowers, are flaked and striped bright salmon on white ground. Pkt. 10c, oz. 20c, ¼ lb. 60c.

BLACK KNIGHT.—Rich glossy blackish maroon. Immense bold, attractive flowers borne in greatest profusion. Pkt. 10c, oz. 20c, ¼ lb. 60c.

DOROTHY ECKFORD.—(No. 7.)—The largest flowered white variety. Great bloomer. Pkt. 10c, oz. 20c, ¼ lb. 60c.

DAINTY.—(No. 3.)—Light blue on white ground, edged with deep violet. Pkt. 10c, oz. 20c, ¼ lb. 60c.

EARLIEST OF ALL.—Very early; a bright pink with white wings. Pkt. 10c, oz. 20c, ¼ lb. 60c.

EXTRA EARLY BLANCHE FERRY.—Earliest of all. A beautiful light rose and white. Delicately handsome. Pkt. 10c, oz. 20c, ¼ lb. 60c.

GOLDEN ROSE.—Pink, suffused light yellow. Pkt. 10c, oz. 20c, ¼ lb. 60c.

KING EDWARD VII.—(No. 11.)—A true giant-flowered variety; brighter than other dark varieties, in fact, the best dark red in existence. Pkt. 10c, oz. 20c, ¼ lb. 60c.

LADY GRISEL HAMILTON.—(No. 8.)—Light lavender with azure blue wings. Pkt. 10c, oz. 20c, ¼ lb. 60c.

LOVELY.—(No. 2.)—The most beautiful shades of soft shell-pink, shading to faint rose at outer edges. Pkt. 10c, oz. 20c, ¼ lb. 60c.

MRS. WALTER WRIGHT.—Of pinkish cream, changing to red-dish purple; large. Pkt. 10c, oz. 20c, ¼ lb. 60c.

LOTTIE ECKFORD.—(No. 10.)—Standard rose, the wings primrose shaded and splashed rose. Pkt. 10c, oz. 20c, ¼ lb. 60c.

MONT BLANC.—Large white flowers, free blooming and the earliest of all whites. Pkt. 10c, oz. 20c, ¼ lb. 60c.

MRS. KENYON.—A decided novelty in Sweet Peas, being a very pretty large-flowered sort, of a handsome primrose or yellow color. An attractive new color. Pkt. 10c, oz. 20c, ¼ lb. 60c.

NAVY BLUE.—(No. 1.)—A great novelty; the darkest and truest blue of any variety. Free bloomer. Pkt. 10c, oz. 20c, ¼ lb. 60c.

OTHELLO.—A beautiful dark brown chocolate red self-colored. Pkt. 10c, oz. 20c, ¼ lb. 60c.

PRINCE OF WALES.—(No. 5.)—A bright, self-colored, deep rose flower of grand size and beautifully hooded form; frequently four on a stem. Pkt. 10c, oz. 20c, ¼ lb. 60c.

PRIMA DONNA.—A soft shade bright rose-pink, with deeper coloring in center. Pkt. 10c, oz. 20c, ¼ lb. 60c.

RAMONA.—(No. 4.)—Flower creamy white and striped and flaked bluish pink. Pkt. 10c, oz. 20c, ¼ lb. 60c.

ROYAL PURPLE.—Striking dark flower. Pkt. 10c, oz. 20c, ¼ lb. 60c.

ROYAL ROSE.—Beautiful clear rose. Pkt. 10c, oz. 20c, ¼ lb. 60c.

Circular how to grow Sweet Peas mailed free on request.

CUPID MIXED.—Dwarf growth. Flowers are pretty and freely produced. Mixed colors. Pkt. 5c, oz. 15c, ¼ lb. 45c.

PERENNIAL MIXED.—See page 81. Pkt. 10c, oz. 35c.

SPENCER SWEET PEAS.—Illustrated, described and priced on the following page

ORCHID FLOWERED-SWEET PEAS

This most lovely type of sweet peas originated in England some years ago with the original variety now called Countess Spencer, and has developed new colors and markings each succeeding season so that we now have quite a range. The distinguishing characteristics of the Spencer type is the wavy, orchid-like appearance of the blossoms. They are stronger, more robust in growth, with extra large flowers of exquisite, delicate beauty. We offer only a few of the many varieties in existence, choosing those which have become fixed in form and color and which will reproduce without deviation. With only a few varieties we offer you a beautiful display of varied colors. We have in our selections of the Spencer varieties followed our rule of accepting only such as will give satisfactory results.

AMERICA.—A dainty and attractive blossom of ivory white with distinct stripes of bright crimson. Form of the best Spencer type with large size with three or four lovely flowers on each stem. Selected for one of our list of the

KING WHITE SPENCER.—(See illustration on this page.)—One of the finest types of the Spencer class and the best white variety. Flowers deeply waved and curled. Color pure white. Very vigorous and strong, with stiff,

best because of its delicate beauty which will be appreciated by all who seek the best in sweet peas. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25.

BARBARA.—The flower is salmon color without markings or shading, and makes a remarkably attractive bouquet without any other color. It will harmonize well in mixtures either for plantings or with the many other shades of cut blooms. There are many varieties of varying shades of salmon color but we choose this for our list as the best of its type. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25.

ELFRIDA PEARSON.—One of the largest flowers yet introduced. It is an extremely vigorous grower and the blooms are held on long stiff stems which give them great substance and lasting quality. Flowers are borne four in cluster and often show double standards which adds greatly to their charm. Color is pink, of a most attractive and lovely shade, and we offer it as the best pink of the class. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

FIERY CROSS.—The most unique color in sweet peas. The standard is bright orange scarlet while the wings are rich orange cherry shade, making a flower of flaming color and unusually attractive. Specially brilliant in strong sunlight which it bears without scorching or fading. It is probably the most famous and popular sort. It adds in every situation the touch of scarlet which is so desirable. It is difficult to describe but the flower will amaze you with its beauty. Pkt. 15c, oz. 50c, $\frac{1}{4}$ lb. \$1.50.

FLORENCE MORSE.—This flower is a very delicate rose color, shaded a little darker pink at the edges. It is one of the best of the Spencer type, having large, open, wavy flowers, borne four on the stem, which are quite long. It is very similar to Countess Spencer except in the color, which is of lighter shade. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

KING MANOEL.—The finest type of Spencer form in size and manner of growth and will appeal to lovers of dark colored blossoms. It will not fail to attract the eye in any collection of sweet peas. Stems are long, strong, and carry three or four fine blossoms of deep, rich maroon. A strong, vigorous grower. Pkt. 10c, oz. 35c, $\frac{1}{4}$ lb. \$1.00.

SPENCER MIXED.—This is not in any sense inferior, but is a choice mixture of the Spencer types and varieties. This mixture contains many sorts not named in our list, at a reasonable cost. Pkt. 10c, oz. 25c, $\frac{1}{4}$ lb. 90c, lb. \$3.00.



KING WHITE SPENCER SWEET PEAS

upright stems bearing three or four blossoms on each. Retain their freshness and purity after being cut. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.00.

PRIMROSE SPENCER.—This is a very fine, large blossom of rich, deep cream or primrose yellow throughout; both standard and wings being of solid color without trace of shading. Is undoubtedly the richest coloring and finest quality of primrose shade. Equally as finely waved as the other Spencers and of strong, robust character. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

Diversity Collection

12 Packets—12 Colors
\$1.00 Postpaid.

One packet of each of the choicest Spencers, as named and described on this page:

America
Barbara
Elfrida Pearson
Fiery Cross
Florence Morse
King Manoel
King White
Primrose Spencer
R. F. Felton
Royal Purple
Sunproof Crimson
Wedgewood Blue

One packet of each
\$1.00.
One ounce of each
\$3.00.

R. F. FELTON.—A splendid strong growing sort, of unusual vigor. Flowers are of great size, borne on immense strong stems and generally four on a stem. Color is soft, pleasing lavender with wings of French gray, making a dainty and lovely blossom. Combines extreme loveliness with strength and vigor. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

ROYAL PURPLE.—A distinct and striking color that it will astonish the beholder with its beauty. It is a warm rosy purple, the younger flowers having a slightly softer tone and the flowers are of immense size and usually produced in fours, while the stems are of great length. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. 1.25.

SUNPROOF CRIMSON.—A splendid crimson color and selected as the most vigorous variety of this shade. Will stand summer heat without fading or drooping. If you buy a mixture add a few of these to increase proportion of red in your hedges. Pkt. 10c, oz. 30c, $\frac{1}{4}$ lb. \$1.00.

WEDGEWOOD BLUE.—We have given this the preference among blue sorts because of its superiority over the older varieties of this shade. It is a beautiful bloom, of lively blue in its entirety, and the flowers are waved in both standards and wings. The stems nearly always bear four perfect blossoms. Pkt. 10c, oz. 40c, $\frac{1}{4}$ lb. \$1.25.

GROW YOUR SWEET PEAS ON WIRE TRELLIS OR FOUR-FOOT POULTRY NETTING IT AFFORDS THE BEST SUPPORT.



SWEET WILLIAM

SINGLE MIXED—Hardy plants 1 foot high, of extreme richness and variety of color; deliciously sweet-scented. Our mixture contains beautiful colors and markings. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

DOUBLE MIXED—The florets are densely double and full centered. While beautiful, are not as popular as single-flowered. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.

ANNUAL—Quick growing type of Sweet Williams. A great range of color and markings make them attractive. Pkt. 10c.

ZINNIA

Strong growing, hardy and elegant plants, colors are bright and varied and range from pure white to deep purplish crimson.

ROBUSTA GRANDIFLORA—Given its name because of strong growth and large flowers. Grows 3 ft. high and produces flowers 5 in. across. In separate colors: white, yellow, orange, pink, scarlet and crimson; or in mixed colors. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

One pkt. each six separate colors of Grandiflora Zinnia for 50c.

SPLENDOR—This splendid strain of Zinnia is grown on our Altoona farms with special care. The finest colors and most splendid blooms and plants we have seen. Pkt. 10c; $\frac{1}{4}$ oz. 25c; oz. 75c.

NEW ZEBRA—Beautifully and brilliantly striped with rich colors. There are always some plants which do not produce striped flowers. Very handsome. All colors mixed. Pkt. 10c.

FINEST DOUBLE MIXED—Pkt. 5c; $\frac{1}{4}$ oz. 15c; oz. 50c.

CURLED AND CRESTED—A most unique and charming sort with petals oddly curled and crested in fantastic contortions and graceful forms. Flowers are large, double, and peculiar shape of petal relieves the flower from stiffness. Many colors. Pkt. 10c.

PIGMY OR LILIPUT—Plants are small and of bushy growth, each one bearing scores of beautiful little blossoms of most perfect shape and brilliant colors, from pure white to very dark orange purple, crimson and vermilion. Pkt. 10c.

SUNFLOWER

The sunflowers are bright and attractive for screens, borders, clumps and can be used to great advantage around perennial beds or among shrubbery.

Some varieties are very ornamental, and effective.

DOUBLE CHRYSANTHEMUM FLOWERED—A dwarf variety growing 4 to 6 feet, producing beautiful double flowers, of unusual form. Named because they resemble the large yellow chrysanthemums so popular. Pkt. 10c.

GLOBE OF GOLD—A beautiful new double sunflower, growing about 4 feet high. Flowers borne on very branching stems, in such profusion that when in bloom it seems a mass of golden yellow. Pkt. 10c; oz. 25c.

EXCELSIOR BRANCHING—This new plant, known as *H. Cucumerifolius Grandiflorus*, has a single flower about 5 inches across producing a pyramid of bloom. Pkt. 5c.

RAINBOW SUNFLOWER—Grows in varying height from 5 to 8 feet, branching freely, and producing many blooms of different sizes. Colors range in shades of yellow, red and brown and are very striking. Pkt. 10c.

BABY—(*Helianthus Perkeo*)—Two feet high, loaded with lovely Cosmos-like blossoms, of perfect shape. Rich, deep yellow with dark center. Pkt. 5c.

PEERLESS MIXED—A splendid assortment of fifteen of the best varieties grown together on our grounds. Includes some both curious and desirable. Pkt. 5c; oz. 15.

MAMMOTH RUSSIAN—Largest of all, showy and most profitable to grow for seeding purposes. Listed in farm seed department. Oz. pkt. 5c; lb. 35c.

WHITE BEAUTY—A sunflower growing as large as the Mammoth Russian; seeds clear paper white. Very productive of seed. Also listed in farm seed department. Pkt. 5c; lb. 35c.



GLOBE OF GOLD

VERBENA

Deservedly a universal favorite. A constant bloomer, and if grown from seed has a sweet fragrance. Plant in boxes, or under glass in March, and transplant when a few inches high. In this way they bloom early.

BANNER VERBENA COLLECTION

Red, White and Blue—One packet each of our national colors of seed from the mammoth type. This seed is from choice plants and the collection is one of our best offerings. Owing to the spreading habit of the plants you can have a large bed of beautiful flowers at very low cost. You can buy plants if you prefer.

Banner Collection, 30 cents, postpaid

NEW CENTURY MAMMOTH—The most beautiful colors, largest flowers and largest truss, and will please everyone. Well grown flower truss measures over 9 inches in circumference while single florets are as large as a twenty-five cent piece; more vigorous growing than the ordinary sort. Pkt. 10c; $\frac{1}{4}$ oz. 35c; oz. \$1.25.

CANDIDISSIMA—Large trusses of pure white flowers; beautiful. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.00.

BLUE MIXED—Desirable. Blue, purple and lavender sorts. Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.00.

DEFIANCE—A true scarlet, large and extra fine. Pkt. 10c; $\frac{1}{4}$ oz. 35c; oz. \$1.00.

CHOICE MIXED—From the finest foreign collection of named sorts. Pkt. 5c; $\frac{1}{4}$ oz. 20c; oz. \$1.00.

LEMON—(*Aloysia Citrodora*)—The popular plant much prized for its sweet-scented leaves which retain their fragrance when dried and are therefore doubly useful. Pkt. 10c.

WAHLENBERGIA

A perennial plant blooming the first year from seed, which should be sown early in the open ground. Flowers are of large size, $2\frac{1}{2}$ to 3 inches in diameter, and of various shades of light blue, lavender and white. Pkt. 10c.

WALLFLOWER

Greatly prized for their exquisite fragrance. Grow in long, brilliant colored spikes of flowers. Plants removed to pots in autumn will produce abundance of delightfully fragrant flowers of many colors.

DOUBLE VARIETIES MIXED—Pkt. 10c.

SINGLE MIXED—Best single and semi-double sorts. Pkt. 10c.

EARLY FLOWERING MIXED—Flowers early the first season. Per pkt. 10c.



NEW CENTURY MAMMOTH VERBENA



PIGMY ZINNIA

THERE ARE SPLENDID POSSIBILITIES IN OUR NEW VARIETIES OF SUNFLOWER FOR MASSING IN CLUMPS FOR SCREENS.

ORNAMENTAL CLIMBERS

Nothing adds more to the homelike appearance of a place than to have the pleasant shade of vines over the porches, and climbers on trellises, trees, fences, and outbuildings. We list them together so that our customers can make selection. Notice also the list of hardy permanent vines on pages 110 and 111.

BALLOON VINE.—A pretty, rapid growing climber, succeeding best in a warm situation. Flowers white, followed by balloon-like seed pods. Pkt. 5c, oz. 30c.

BRYANOPSIS.—Beautiful summer climber, yellow flowers, followed by pretty cherry-like green fruits which change to bright scarlet, marbled with white. Pkt. 10c, oz. 40c.

COBOEA SCANDENS.—A magnificent climber of rapid growth and beautiful blue flowers. The seed should be planted edgewise. Pkt. 10c, ¼ oz. 50c.

CANARY BIRD FLOWER.—One of the most beautiful climbers, with delicate, finely-cut foliage and curious bright yellow flowers, resembling the canary bird in shape and color. Pkt. 10c, oz. 25c.

CARDINAL CLIMBER.—A hybrid form of Cypress Vine and Morning Glory. Grows 20 to 30 feet high, producing bright cardinal flowers 1 to 1½ inches in diameter. A novelty of merit for porch and arbor uses. Pkt. 10c.

CYPRESS VINE.—A beautiful rapid climber with delicate dark green foliage, and an abundance of star-shaped scarlet and white blossoms.

Mixed Colors.—Above mixed. Pkt. 10c, oz. 50c.

DOLICHOS.—(Hyacinth Bean.)—**Mixed Colors.**—A rapid growing annual climber flowering freely, in clusters followed by ornamental pods. Fine for arbors or porches. Pkt. 5c, oz. 15c.

Daylight.—Pure white flowers standing out boldly from the rich foliage. Pkt. 5c; oz. 30c.

Darkness.—A good companion for above. Both stems and under side of its leaves purplish red. Pea-like flowers; it blooms early. Pkt. 5c; oz. 20c.

GOURDS.—**Ornamental Mixed.**—A mixture of the odd-shaped and fancy-colored sorts. Contains the most popular and handsome foreign varieties. Pkt. 5c, oz. 25c.

JONAH'S GOURD.—Grows with wonderful rapidity, useful for covering old trees, walls, porches, outbuildings, etc. Leaves quite large, flowers pure white, 2 or 3 inches in diameter. Fruits of great length, resembling well-known Hercules Club. Pkt. 12 seeds 10c, 3 for 25c.

KUDZU VINE.—Jack and the Beanstalk.—Hardy, very rapid growing vine which dies to the roots after frost, but which grows to forty feet in a season when established. Large foliage and clusters of pea-shaped purple flowers. Grows readily from seed. Pkt. 10c.

MORMORDICA.—**Mixed.**—Commonly known as Balsam apple and Balsam pear. Foliage ornamental, and fruits are golden yellow, opening when ripe, showing a bright carmine center. Fine for trailing over stumps, etc. Pkt. 10c; oz. 40c.

MAMMOTH PASSION FLOWER.—Sow the seed early and if well cared for and seasons are favorable, vines will put forth magnificent blossoms the first year, of pink, blue and white, very large and showy. A very desirable vine for trailing over porch or trellis; also quite desirable for planting over mounds and in the cemetery. Pkt. 10c.

CLIMBING NASTURTIUM.—Description and prices of different varieties on page 74.

MOONFLOWER.—**White.**—(Ipomoea Grandiflora.)—One of the grandest summer climbers, growing 25 to 40 ft. high, and covered nightly and dull days with beautiful flowers from 5 to 6 in. in diameter. Fragrant. Pkt. of 5 seeds 10c, ½ oz. 40c.

Pink.—5 seeds 10c.

Blue.—Distinct and charming novelty; in striking contrast to the true White Moonflower. Color exquisite, clear, satiny blue; well defined crimson bars. Pkt. 10c; ½ oz. 50c.

PERENNIAL SWEET PEAS.—(Lathyrus.)—A very popular perennial variety and it should be more generally used. Mixed colors. Blooms second year. Pkt. 10c; oz. 50c.

RUNNER BEAN.—**Scarlet Runner.**—A valuable climbing bean, having bright scarlet flowers and pods; very showy as a climber, also valuable for table use. Pkt. 15c; ¼ lb. 30c; lb. \$1.00.

SMILAX.—Considered the most beautiful of all vines for indoor growing and specially valued by florists for decorating and floral work all times of the year. The seeds start slowly and should be planted in loose, rich soil, and kept moist and warm. Pkt. 10c.



IMPERIAL JAPANESE MORNING GLORIES

MORNING GLORIES.—**Imperial Japanese.**—Remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage. Vines grow quickly to a height of twelve to twenty feet. Flowers are of gigantic size, sometimes measuring four or five inches across. Colors, shading and markings really wonders of nature. Double and single. Pkt. 10c; oz. 25c.

Fringed Japanese.—Odd yet attractive appearance. Similar in size and coloring to the Imperial strain and delicately beautiful because of waved and curled borders of blossoms. Pkt. 10c; oz. 35c.

New Double Flowering.—Of rapid growth and flowers very freely. They are white with a slight spot of red or blue at base of larger petals. About 8 per cent of seedlings will reproduce themselves true from seed. Pkt. 10c.

Improved Climbing.—A great improvement on the old climbing morning glory. Large size; great variety. Pkt. 5c; oz. 20c; ¼ lb. 60c.

Brazilian.—(Ipomoea Setosa.)—One of the grandest and most luxuriant plants ever grown; very showy and graceful, with rose-colored flowers from 3 to 4 inches in diameter, and a huge leaf 10 to 12 inches across. Pkt. 10c; oz. 25c.



WILD CUCUMBER.—A well known vine common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh and lively green color; never infested with insects, very profuse in bloom. It reaches height of 30 feet in one season. It is covered with clusters of white, sweet-scented flowers, followed by an abundance of ornamental prickly seed pods. It will reproduce itself from self-sown seed every year. Pkt. 10c; oz. 40c.

WISTARIA.—One of the most popular hardy vines, climbing to a height of 50 feet or more. It is perennial and easily grown from seed. Of rapid growth, bearing in spring immense panicles of purple flowers in great profusion. Pkt. 10c.



CARDINAL CLIMBER



CANARY BIRD FLOWER



COBOEA SCANDENS



MOONFLOWER

MANY POPULAR VINES FOR HANGING BASKETS AND WINDOW GARDEN DECORATION ARE LISTED IN PLANT DEPARTMENT.

EVERLASTINGS AND GRASSES

These are very attractive for winter decoration as they are of rich brilliant colors and are fine for winter bouquets. Cut when in full bloom, tie in small bunches and hang, heads downward, to dry.

AMOBIMUM.—*Alatum Grandiflorum.*—A pretty everlasting, double white flower. Pkt. 5c.

ACROCLINIUM.—Mixed Colors.—An everlasting of fine form, growing about two feet high and producing large double flowers which when dried retain their form and beauty for a long time. Shades of pink to white. Pkt. 5c; oz. 30c.

GLOBE AMARANTH.—(*Gomphrena*)—Mixed Colors. Popularly known as "Bachelor Buttons." Handsome, globular heads of flowers; if cut when well matured, retain their beauty during winter. Colors purple, white, flesh, orange and striped. Pkt. 5c; ¼ oz. 10c; oz. 30c.

HELICHRYSUM.—*Monster Mixed.*—A very pretty and popular hardy annual bearing large double flowers of different shades and colors, ranging from white to yellow, rich red, scarlet. Best everlastings, as they retain their form and color for many months, and are particularly useful in winter decoration. Pkt. 5c; ¼ oz. 20c; oz. 50c.

JOB'S TEARS.—An ornamental grass known botanically as *Coix Lachryma*.

MONSTER HELICHRYSUM.

Produces beautiful seeds about ¼ inch in diameter, which are used like beads in fancy work. Grows 2 to 3 ft. high with broad, corn-like leaves. Pkt. 5c; oz. 15c.

JOB'S TEARS FOR FANCY WORK.—We also offer in quantity, at a low price, choice seeds of glossy pearl color, which are used for necklaces, basket and raffia work, and in strings for portieres. Not sold for germination. Oz. 10c; ¼ lb. 35c; lb. \$1.00.

PENNISTEUM.—*Rueppellianum.*—A handsome grass commonly called Purple Fountain Grass. Very popular for borders to beds of cannas and other large bedding plants. Pkt. 10c.

RHODANTHE.—Mixed Colors.—One of the finest and most beautiful of flowers; are of various colors. For winter bouquets the blossoms should be gathered before fully expanded, and if dried in the shade will retain their brilliancy for years. Pkt. 10c.

STATICE.—(*Sea Lavender*)—Immense panicles of small blue flowers sometimes more than a foot in diameter. Grows 12 to 18 in. high with thick, heavy foliage. Flowers are very lasting if properly dried and are very striking in winter bouquets. Pkt. 10c.

XERANTHEMUM.—Free flowering and easily grown, making a handsome bed. All kinds mixed. Pkt. 10c.



RHODANTHE.



GLOBE AMARANTH.



PENNISTEUM RUEPPELANUM

SPECIAL FLOWER SEED MIXTURES

Carefully Prepared from our own Formulas
for Splendid Effects in the Informal Garden

Many persons derive pleasure from watching the growth of a varied bed of flowers, entirely out of the usual trim garden style, while others desire a much more extended collection than their means will permit. To both of these classes the following special mixtures will appeal:

WILD GARDEN MIXTURE.—Over 400 kinds of flower seeds which are suitable to be planted together, altogether forming a mass of bright colored flowers and beautiful foliage which is sure to interest and please. Our illustration will give some idea of the possibilities of growing flowers from this mixture. Select a light, rich soil, as free from weeds as possible, plant in this latitude about the first of May. Pkt. 5c; ¼ oz. 10c; oz. 25c.

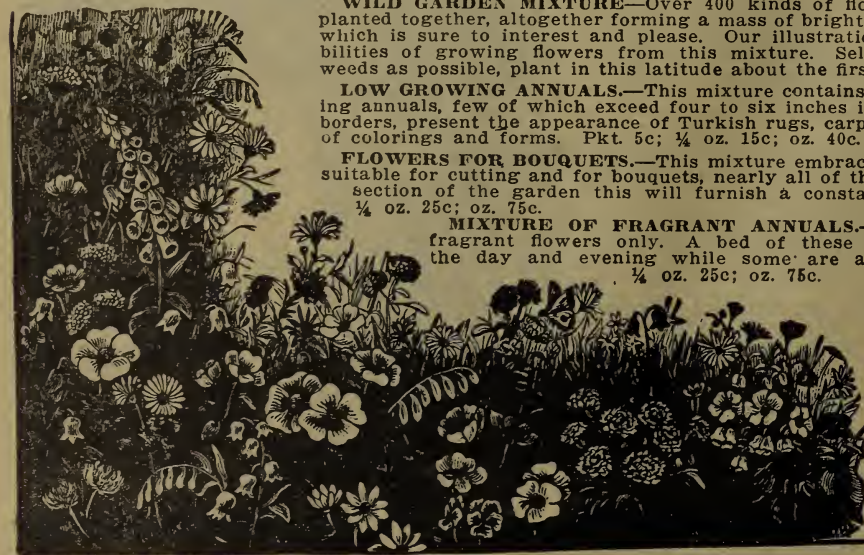
LOW GROWING ANNUALS.—This mixture contains seed of a great variety of low growing annuals, few of which exceed four to six inches in height, and which, sown in beds or borders, present the appearance of Turkish rugs, carpeting the ground in their wide range of colorings and forms. Pkt. 5c; ¼ oz. 15c; oz. 40c.

FLOWERS FOR BOUQUETS.—This mixture embraces seeds of annuals producing flowers suitable for cutting and for bouquets, nearly all of them having long stems. Planted in a section of the garden this will furnish a constant supply of cut flowers. Pkt. 10c; ¼ oz. 25c; oz. 75c.

MIXTURE OF FRAGRANT ANNUALS.—Carefully made up from seeds of fragrant flowers only. A bed of these will give rich perfume throughout the day and evening while some are also suitable for cutting. Pkt. 10c; ¼ oz. 25c; oz. 75c.

LAWN FLOWER MIXTURE.—A special mixture of low growing, quick blooming flowers, very desirable for sowing in Lawn Grass Seed in the spring. They come up quickly, afford shelter for grass seed and will bloom by the time the grass requires cutting the first time. Also desirable for sowing on an old lawn very early in the season. Pkt. 10c; oz. 25c.

MIXTURE OF CLIMBERS.—This is a liberally filled packet of seed of many beautiful annual climbers suitable for growing together. Pkt. 10c; ¼ oz. 25c; oz. 75c.

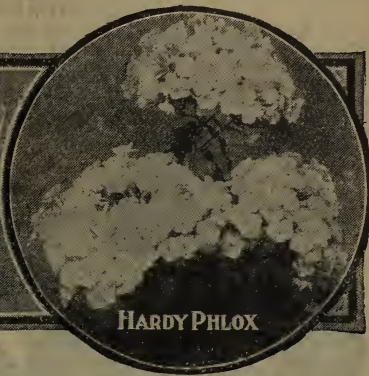


WE PREPARE ALL OUR MIXED FLOWER SEEDS FROM CHOICE. FRESH SEEDS AND THEY WILL GIVE SATISFACTION.



PAEONIES

Hardy Perennial Plants



HARDY PHLOX

It is really wonderful the immense demand which there has been for these hardy plants during the past few years. Our customers are learning that they require less care and more satisfactory with ordinary culture than most other classes of plants. When once set out they bloom year after year, the flowers really becoming better as the plants grow older. These varieties are all hardy, the tops dying down every winter, but coming up again in the spring. We prepay the postage.

ANEMONE

WHIRLWIND.—Beautiful Japanese Anemone; has proved one of the finest hardy fall-blooming plants cultivated; grows to a height of 3 feet, holding up on stiff stems double flowers from two to three inches across, of pure white, and heavy, waxy texture. A large bed of this is worth going miles to see, and the large, graceful flowers are fine for cutting. Each 25c, dozen \$2.50.

QUEEN CHARLOTTE.—Similar to above but earlier and of beautiful shell pink color. An early flowering pink Anemone. Each 25c, dozen \$2.50.

AQUILEGIA

Columbines are always beautiful and attractive, reminding one of the woods. Many handsome colors. Each 15c, dozen \$1.50. Large clumps 25c.

ACHILLEA

THE PEARL.—Finest of all plants for cemetery planting. The flowers are good sized, forming a beautiful plant 18 inches high, completely covered with pure white flowers from July until frost. We recommend this for general planting. Each 15c, dozen \$1.50.

MILIFOLIUM ROSEUM.—Finely cut, deep green foliage. Bears a mass of handsome, bright pink flowers or umbels. Each 15c, dozen \$1.50.

BABY'S BREATH

(Gypsophila Paniculata.)—When in bloom it forms a symmetrical mass 2 to 3 feet high, of minute white flowers, giving it a beautiful mist-like appearance. For cutting purposes it is exquisite. Each 20c, dozen \$2.00.

CANTERBURY BELLS

We can furnish assorted colors. Wonderfully fine perennials, which will often reach 3 feet in height. Color blue, rose or white. Each 15c, dozen \$1.50.

DOUBLE BUTTERCUP

A dainty novelty. The flower is from one-half to three-fourths inch in diameter, perfectly double and of a peculiarly shining bright yellow color, as if varnished; produced in great profusion. Each 15c, dozen \$1.50.



AQUILEGIA

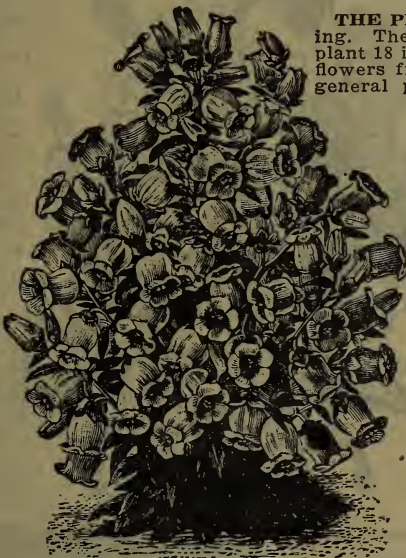
DAY LILY

WHITE.—(Funkia.)—Very beautiful plant for partly shady places. Large, round, heart-shaped leaves, clusters white flowers. Each 30c.

BLUE.—Like above, lovely blue, borne on tall spikes. Each 25c, dozen \$2.50.

VARIEGATED.—Beautifully mottled dark green and pure white leaves, lilac flowers. Each 25c, dozen \$2.50.

ONE EACH OF THE THREE VARIETIES OF DAY LILY POSTPAID FOR 70c.



CANTERBURY BELLS

DICENTRA (Bleeding Heart)

SPECTABILIS.—The old Bleeding Heart as lovely as ever. In early spring it bears its long chain of pendulous bloom of exquisite beauty. One of the most satisfactory of permanent plants, and a general favorite. To secure satisfactory results, keep soil loose and rich. Each 50c, dozen \$5.00.

FOXGLOVE

(Digitalis.)—These are most satisfactory summer flowering hardy perennials, succeeding under almost all conditions, and with but trifling attention will give wealth of flowers during June and July. They are used extensively with good effect in shrubberies and in other shady situations. Each 15c, dozen \$1.50.



FOXGLOVE



BLEEDING HEART

OUR HARDY PLANTS ARE ALL ACCLIMATED IN IOWA AND WILL GIVE BEST OF SATISFACTION TO NORTHERN PLANTERS.

GAILARDIA

GRANDIFLORA.—Begin to flower in June and continue one mass of bloom the entire season. Will thrive in almost any position or in any soil, but respond freely to liberal feeding. Being perfectly hardy they require absolutely no protection. The flowers are large, from 2½ to 3½ inches in diameter. They are produced on long stems. Center is dark reddish brown. Petals brilliant scarlet, crimson, orange and vermillion. Each 15c, dozen \$1.50.



JAPANESE IRIS

JAPANESE IRIS

Among the most beautiful summer flowering plants. They send up to a height of 3 feet a dozen flowering spikes, each bearing two to four blossoms 8 or 10 inches across, and of most beautiful markings and color combinations—white, indigo, purple, blush, yellow, etc. Except the orchid no other can compare with it; easily grown as a potato, in any good soil. Give full exposure to sun. A joy for a lifetime, blooming freely in June and July. Mixed colors, each 25c, dozen \$2.50.

HELIANTHUS

MULTIFLORUS PLENIUS.—A perennial double flowered sunflower which has blooms from 2 to 4 inches across, double as any dahlia, and cover the plant. Color is a bright golden yellow. Give it a sunny position and rich soil. Each 20c, dozen \$2.00.

HOLLYHOCK

These old favorites are again becoming popular. Both showy and desirable for massing and backgrounds. Mixed colors, including black, white, pink, yellow and red. Each 15c, dozen \$1.50.

IBERIS

SEMPERVIRENS.—(Perennial Candytuft.)—A dwarf plant producing clusters of flowers. A fine perennial for mass bedding. A mat of bloom in spring. Very desirable for borders of permanent beds or along the edge of walks and drives. Each 15c, dozen \$1.50.

MEHAN'S MARVEL MALLOW

Magnificent hardy Mallow; in size, profusion of bloom, and rich coloring among the most beautiful and striking perennials. Blossoms 8 to 10 inches across. Colors from fiery crimson to pure white. All shades of pinks and reds, rich in coloring. Each 30c, dozen \$3.00.

HIBISCUS

CRIMSON EYE.—Robust grower, with red stems and green foliage. Flowers are immense, often measuring 20 inches in circumference. Color is white with large spot of deep velvety crimson in the center of each flower. Is perfectly hardy. Each 25c, dozen \$2.50.

MOSCHETUS.—Also called Swamp Rose Mallow. A splendid Hibiscus with eye of darker shade, free flowering and beautiful. Each 25c, doz. 2.50.



GAILARDIA GRANDIFLORA

FRENCH IRIS

The true "Fleur-de-Lis." the national flower of France. Perfectly hardy, thrive anywhere, grow and bloom luxuriantly. Unless otherwise noted, price any variety, 15c each, dozen, \$1.50. By exp., 100 for \$10.00.

ALEXANDER HUMBOLDT.—Standards of violet, falls purple, veined white. Bears large, bold flowers in clusters of five on strong stems.

CELESTE.—Large, open flower of pure celestial blue, changing to porcelain blue as it ages.

FLAVESCENS.—Standard cream white, falls primrose veined bronze. Tall growing and late blooming.

FLORENTINA.—Rich indigo blue throughout. Flowers large, first in bloom and quite lasting.

FLORENTINA ALBA.—The best white iris. A lovely shade of color, very early and fine. Plant it for contrast.

HONORABLE.—Standards bright yellow, falls chestnut brown veined white. Free bloomer.

LA TENDRE.—Standards lavender, falls light blue, thickly veined violet. Very pleasing, clean, bright color.

MADAME CHEREAU.—Pearly white, edged with a broad margin of violet. Flowers are crumpled. A late sort.

GYPSY QUEEN.—Standards a rich cream yellow. Falls deep purple, shaded bronze. Medium height. Free bloomer.

PLUMERI.—Clear wine red throughout. A distinct color in iris. Plant throws tall stalk and a free bloomer.

SAN SOULI.—Unique color combination, violet and yellow, flushed apricot. Blooms freely.

SHAKESPEARE.—Standards of light yellow, veined seal brown, falls deep, carmine violet. A beauty.

SUCCESSION IRIS BED

One plant each of the twelve named sorts of French Iris, giving a contrast of color from first early spring to the middle of June, post-paid, for only \$1.60.



FRENCH IRIS



IBERIS (PERENNIAL CANDYTUFT)

HARDY PHLOX

No hardy perennials are more showy or effective than a fine collection of hardy phloxes, and the new and improved varieties will add much to their popularity. Flowers are very large and have exceedingly brilliant shades of color. They bloom from spring until very late fall. If massed in good soil, kept loose, the results will be splendid show of immense flowers.

CHAMPS ELYSEE.—A light purple or magenta blossom which is quite attractive. It is rather a dwarf sort, but a good grower and produces large blooms. Each 15c.

COLIBRI.—A very late bloomer of good size and form. Color white with crimson center. General appearance is bright with decided contrast in color. Each 15c.

EUROPA.—(See cut below No. 1) A splendid new sort of bright, attractive appearance. Florets are white with rose pink eye. The plants grow tall, strong and bear abundant large heads of bloom. Each 15c.

ECLAIREUR.—Light purplish crimson with outer shading of lighter pink. Attractive flowers. Plant of good habit. Each 15c.

HERMINE.—Most dwarf sort, growing only about 10 inches high. Pure white flowers. Suitable for outer edging of phlox bed. Each 15c.

HENRY MURGER.—Flower extra large, florets white with very large crimson center. A fine variety. Each 15c.

LE PROPHET.—Large flower of dark bluish violet. One of the best of this shade. Each 20c.

MISS LINGARD.—(See cut below No. 2)—A tall growing sort with large blooms. Florets white with rather small red eye. Early and free bloomer. Each 15c.

OBBERGARTNER WITTIG.—This is one of the finest of phloxes. Strong growth, larger truss and flower of bright purplish red with bright carmine eye. Each 15c.

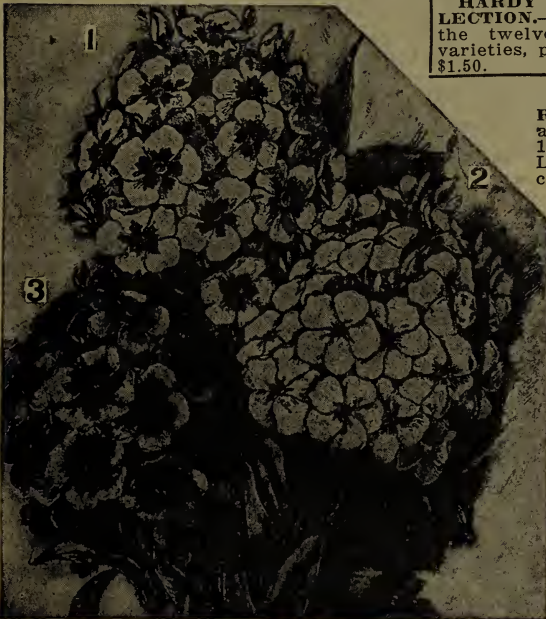
SELMA.—Pale rose mauve with dark red eye. A bright and attractive flower. Each 20c.

VAN LOSSBURG.—A magnificent pure white variety. Not only the flower heads are extra large, but the individual florets are larger than ordinary kinds. Each 15c.

VESUVIUS.—(See cut below No. 3)—This is a very attractive sort. In color bright red with purple eye. A combination quite distinctive. Good blooms on strong plants. Each 15c.

HARDY PHLOX COLLECTION.—One each of the twelve above named varieties, postpaid for only \$1.50.

MIXED VARIETIES.—A fine assortment. Each 15c. dozen \$1.25. Large field-grown clumps, each 25c.



NO. 1 EUROPA, NO. 2 MISS LINGARD, NO. 3 VESUVIUS



VAN LOSSBURG

COLIBRI

CREeping PHLOX

(Phlox Sublata.)—The Creeping Phloxes have a charming beauty. Absolutely hardy without protection. When in bloom, during April and May, their multitude of lovely pink, white or blue flowers cover everything beneath as completely as carpets cover the floor. Bloom again in September, but not so freely. They do well on good soil, but are also desirable for covering rocky hillsides, sandy slopes, bare ground too poor to grow anything else, and for edging borders of hardy plants or shrubbery are not surpassed. We can furnish three colors: Pure white, deep pink, and light blue. Botanically known as Phlox Sublata. Each 15c. doz. \$1.50, 100 for \$10.00.



CREeping PHLOX

A FEW PLANTS OF PHLOX WILL MULTIPLY EACH YEAR IF DIVIDED, AND SOON FORM A LARGE BED OF SPLENDID BLOOM.

SUPERB PÆONIES

The Pæony is truly a most noble flower and rivals the rose in brilliancy of color and perfection of bloom, while greatly surpassing it in size and stately grandeur. One writer has well said that the "Pæony fully equals the rose except in poetry, perfume, thorns, bugs and disease." They are of the easiest culture, most

vigorous habit, and free from disease and insects. The foliage is rich, glossy and ornamental, even when plants are not in bloom. Many of the newer varieties are quite fragrant and no other flower is so well adapted for large and showy bouquets. Plant the pæonies this year, plant lots of them in rows, beds or as specimen plants on the lawn. They make a grand show. May be transplanted either in spring or fall. Set out early in spring as possible. Fall planting should be done in September or October, and they should be protected the first winter slightly. They may be left undisturbed for twenty years or more. In planting set the crowns two inches below surface. We pay postage.

WHITE PÆONIES

FESTIVA MAXIMA.—(See Cut No. 1.)—By far the finest double white pæony grown. The flower is of immense size, perfectly globular, the guard petals being large, while the inner petals are crimped, thus making it appear extremely double. The color is of the purest snow white with sometimes slight carmine marks in the center. Our price only 60c, doz. \$6.00.

COURONNE D'OR.—This is a peculiar variety in form, as the blooms are rather flat, but in the center is a tuft of white, with a few crimson splashes like Festiva Maxima. It grows medium height and blooms rather later than other white sorts. Strong and vigorous. Each 75c.

QUEEN VICTORIA.—(See Cut No. 2.)—Very double and compact; color flesh white, white center, petals lightly spotted with red. A half dozen of these make a magnificent bed. Each 50c, doz. \$5.00.

GOLDEN HARVEST.—This is probably the nearest approach to a yellow pæony. Outer petals light blush, light yellow center. Very prolific, bearing flowers in clusters of three. Each 60c, dozen \$6.00.

MARIE LEMOINE.—A rare and magnificent variety; flowers are enormous, opening a light blush pink, changing to white when flower is mature. Very late bloomer. Scarce. Ea. 75c, doz. \$7.50.

PINK AND ROSE PÆONIES

EDULIS SUPERBA.—This is a very large, full flower of light pink. It is an old variety but is still popular because of its strong growth and immense clumps. Each 60c, dozen \$6.00.

FRAGRANS.—A very double flower of deep bright rose. Blooms late in the season. Strong, robust grower. Each 60c, doz. \$6.00.

HUMELI.—(See Cut No. 3.)—Very large and full and one of the finest pæonies; color is bright pink and it is delightfully fragrant. Elegant foliage. A fine specimen for lawns. Blooms late. Each 60c, dozen \$6.00.

FLORAL TREASURE.—(See Cut No. 4.)—One of the finest in the entire list. The flowers are extra large and very double; exceedingly prolific; color soft, delicate blush pink. Each 50c, dozen \$5.00.

LA ESPERANCE.—Is an exceedingly fine, vivid rose-colored flower, growing compact and highly perfumed. Early and free flowering. Each 50c, dozen \$5.00.

DUKE OF CLARENCE.—Most prolific bloomer in list. Wonderful large blooms somewhat coneshaped. Color is deep pink, overlaid white, showing a composite appearance. Each 60c, dozen \$6.00.

BRIGHT AND DARK RED PÆONIES

FELIX CROUSSE.—This is a most beautiful solid flower of bright red color, differing from most sorts in the solid flower having practically no division of outer petals and center. Very double; late flowering. Each 75c, dozen \$7.00.

GRANDIFLORA RUBRA.—(See Cut No. 5.)—Has extra large balls of blood red, magnificent flowers. Probably the largest red variety in existence, often 8 or 9 inches across. Give it rich soil and you will be surprised. Each 75c, dozen \$7.50.

RUBRA TRIUMPHANS.—An early blooming and very sweet-scented flower of rich, brilliant, glowing, satiny crimson color. Each 60c, dozen \$6.00.

FULGIDA.—The color is a deep, dense, bright crimson and it is an early and free bloomer. A beautiful and very desirable variety. Each 50c, per dozen \$5.00.

PRINCE IMPERIAL.—Deep, purplish crimson, shining and satiny. The flower is very double, rich and striking and blooms early. A splendid sort for contrast with the lighter shades. Each 60c, dozen \$6.00.

OUR PÆONY BARGAIN

One white, one pink, and one red, our choice of varieties, but good plants and will produce good flowers. A real bargain. **THREE DIFFERENT COLORS, POSTPAID, FOR \$1.25.**

THE FIVE FAVORITE PÆONY OFFER IS ONE OF THE BEST BARGAINS IN ENTIRE CATALOGUE FOR PERMANENT PLANTING.



FIVE FAVORITES PÆONY COLLECTION

REMARKABLY FINE FOR A PERMANENT BED

Free bloomers, flowers of largest size, and contrast in colors will afford the greatest opportunity for mixed bouquets of these wonderful blossoms. These are the most gorgeous flowers, and this the greatest opportunity in all our hardy plant department.

Festiva Maxima.—White, blotch of red in center.

Queen Victoria.—Like above, somewhat smaller.

Floral Treasure.—Light rose pink; very fine.

Humeli.—Bright pink, brighter than above.

Grandiflora Rubra.—Deep blood red.

Five Favorite Pæonies, \$2.50, Postpaid.

GARDEN PINKS

Dwarf hardy garden plants that will grow anywhere and increase in beauty every year. A universal favorite because of its delightful clove-like fragrance.

LAURA WILMER.—A choice variegated sort of great beauty. Each 20c, dozen \$2.00.

ABBOTSFORD.—Deep carmine, marbled with white; has clove fragrance. Each 15c, dozen \$1.50.

ELSIE.—Bright rose with maroon center. A general effect pleasing and attractive. Each 15c, dozen \$1.50.

HER MAJESTY.—A grand variety; plants grow to an immense size, spreading and producing great numbers of pure white double flowers. Each 15c, dozen \$1.30.

HOMER.—Flower contains a dark center in bright red ground color. Each 15c, dozen \$1.50.

MIXED VARIETIES.—Desirable for large beds or borders. Dozen for \$1.25, 100 for \$8.00.

Large clumps named varieties of Garden Pinks 25c each, per dozen \$2.50.

SHASTA DAISY

This is one of the most marvelous productions in the flower line. It can be grown out of doors by anybody where it is not cold enough to kill oak trees. It is perennial and blooms better and more abundantly each season. The flowers are extremely large and graceful, averaging about 4 inches in diameter, with three or more rows of petals of the purest glistening whiteness, and are borne on single, stiff, wiry stems, nearly 2 feet long. Effective in corners and as foreground of screens, and are very popular for planting in clumps and masses among shrubbery or in the permanent garden. The blossoms are very lasting cut for vases for indoor decoration. Strong plants 15c, each; dozen \$1.50.

SHASTA DAISY
VIOLETS

Of all perfumes that of violets is no doubt the most delicate and pleasant. Grow and bloom freely if given a cool situation, but will not succeed in a warm place. Cover well to insure protection during the cold weather of winter.

SWANLEY WHITE.—Finest double variety. Of vigorous growth, producing a great many pure white double flowers. Has such delightful odor it is called "Queen of Fragrance." Each 25c, doz. \$2.50.

LADY CAMPBELL.—To contrast with white. Color deep violet blue; very fragrant; continual bloomer. Is of easy growth. Each 20c, doz. \$2.00.

PRINCESS OF WALES.—Broad, pansy-like flowers of a beautiful violet purple shade, with lighter center. A vigorous growing plant with clean, healthy foliage and stiff, long stems. Each 25c, dozen \$2.50.

YUCCA

FILAMENTOSA.—(Adam's Needle.)—Tropical looking plant with long, narrow leaves, remains green entire year. Grows in clumps and throws up flower stalks from 3 to 4 ft. high, from which hang 100 to 300 creamy white, bell-shaped flowers. It blooms a long time. Each 25c, dozen \$2.50. Strong two-year-old 50c.



RUDBECKIA

RUDBECKIA

GOLDEN GLOW.—A glorious, well known and very popular hardy plant that should find a place in every garden. It is of extra fine habit; vigorous growth, with early, continuous and immense blooming qualities. The stems are long and gracefully poised. It attains a height of 6 to 8 feet, and a small plant set out in the spring will produce hundreds of blossoms during August and September, each as large as a good sized chrysanthemum. It is of easiest culture and is sure to please all. Nice for screen row at back of lawn. Price 15c, dozen \$1.50.

BLUE SPIREA

(Caryopteris.)—This is a handsome shrubby plant for pots or open ground. Bloom from midsummer until heavy frosts. Each 20c, dozen \$2.00.

SWEET WILLIAM

Well known, free blooming, hardy perennial plants which produce masses of lovely, brilliant, sweet-scented flowers through a long period, making a splendid effect in beds. One foot high. Flowers are borne on heads or umbels with individual flowers nearly an inch across. Color white, pink, crimson, purple, etc., with rich markings. Each 15c, doz. \$1.50.



YUCCA FILAMENTOSA.



GARDEN PINKS

PERENNIAL ASTER

Very showy, strong growing and free flowering, presenting a mass of small, bright flowers in large clusters during late summer and autumn. Many shades of color. Each 15c, dozen \$1.50.

POPPY

The perennial poppies surprise and delight flower lovers with the wondrous size and beauty of the blossoms. They greatly surpass the annual poppies in size and splendor. Are very hardy and increase in beauty each year.

ICELAND.—Has fern-like foliage; bears an immense number of elegant flowers. Each 15c, dozen \$1.50.

ORIENTAL.—Mammoth flowers of gorgeous colors. Each 15c, dozen \$1.50.

PLATYCODON

(Wahlenbergia)

A bushy, herbaceous plant 2 to 3 feet, with handsome, deep green foliage and bearing grand clusters of beautiful white, lavender and blue, large, bell-shaped flowers; blooms very profusely and continuously all summer. Each 25c.

SEA PINK

ARMERIA, OR THRIFT.—Foliage narrow and grass-like; bears compact heads of flowers of handsome pink. Entirely hardy. Each 15c, dozen \$1.50.



HARDY SHRUBS

Shrubs are permanent improvements which increase in size, value and beauty year after year. Our price is for strong, healthy plants sent by mail, postpaid, except if they are quoted "by express" it means that customers are to pay cost of transportation. Those marked large or dormant are strong two-year-old plants.

ALTHEA (Rose of Sharon)

DOUBLE WHITE.—Beautiful shrubs. Of neat shape, nice foliage and valuable for hedge plants, are loaded with large, double, white flowers during fall. Each 25c; large 35c.

DOUBLE RED.—Similar to above but floweres are bright red color. Each 25c; large plants 35c.

DOUBLE PURPLE.—Like above, except flowers are beautiful purple. Each 25c; large 35c.

DOUBLE BICOLOR.—White, blotched pink. Very beautiful. Each 25c; large 35c.



ALTHEA
BICOLOR

ELEAGNUS

LONGIPES.—(Japan Oleaster.)—Very desirable silvered foliage and bright orange berries of large size and agreeable flavor. Each 25c, large size 75c.

FORSYTHIA

SUSPENS.—(Golden Bell.)—Weeping or pendulous habit; has deep green leaves and bright yellow flowers. It blooms early. Each 20c, large 40c.

FORTUNIS.—A more upright growing variety; yellow. Each 20c, large size 40c.

VIRDISSIMA.—Blooms among the first shrubs. Flowers yellow, drooping and borne in great numbers. Variety originally from China. Each 20c, large 40c.



HEDGE OF HYDRANGEA



SNOWBALL HYDRANGEA

CORCORUS

JAPONICA.—(Kerria.)—Beautiful and graceful shrub from 2 to 3 ft. high; in bloom from June to October. Produces hundreds of large, double, yellow flowers. Each 20c, large 40c.

VARIEGATA.—Nicely variegated foliage adds greatly to its beauty. Each 20c, large 40c.

CORNUS

FLORIDA.—(White Flowering Dogwood.)—An ornamental and spreading, irregular-shaped tree producing large white flowers in the spring and rich crimson foliage in autumn. Each 20c, large 40c.

STOLONIFERA.—(Red Twigged Dogwood.)—A strong growing shrub, with clusters of fine white flowers, stem and branches turning blood-red in winter. Each 20c, large 40c.

CALYCANTHUS

Generally known as "Sweet Shrub." Flowers are purplish brown, quite double, exquisitely fragrant. Each 20c, large size 40c.

DEUTZIA

PRIDE OF ROCHESTER.—Very desirable shrub of strong, hardy growth, with nice, luxuriant foliage and bearing an abundance of beautiful racemes of double, pure white flowers. Each 20c; large 40c.

GRACILIS.—Pretty, round, bush-shaped Deutzia, bearing pure white flowers in great numbers during May. Each 20c, large 50c.

CRENATA.—Flowers are double white and tinged with pink. Small 20c, large 40c.

CANDIDISSIMA.—Grows about 3 ft. high; bears pure white flowers. Ea. 20c, large 40c.

DWARF HONEYSUCKLE

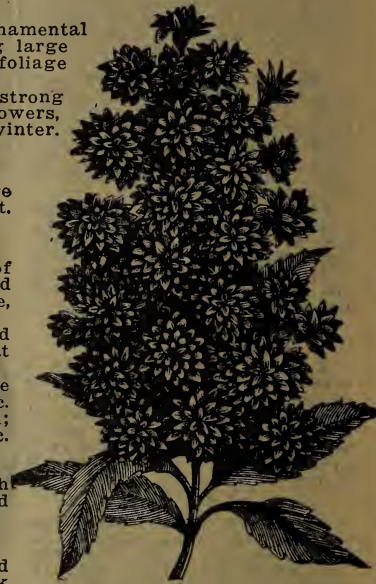
RED TARTARIAN.—Blooms in June with beautiful pink and white flowers, followed by red berries. Each 15c, large 30c.

FLOWERING ALMOND

DOUBLE PINK.—One of the earliest and finest of shrubs. Loaded with double pink flowers. Mail size 75c.

EXOCHORDIA

GRANDIFLORA.—(Pearl Bush)—Neat compact bush; 10 to 12 feet; can be trimmed any desired shape; pure white flowers borne in slender racemes of 8 to 12 florets each. Large size plants each 40c.



PRIDE OF ROCHESTER DEUTZIA

DOUBLE WHITE.—Like above, with snowy white flowers. Mail size 75c.

HYDRANGEA

NEW SNOWBALL.—(Arborescens Grandiflora Alba.) A magnificent new variety of the hardy hydrangea. Flowers are borne much more profusely than on the Paniculata and though the blooms are not so large they are pure white and more like the snowball. Blooms in July and August when flowers of this type are scarce. See illustration above. Each 20c, large 40c. Two-year old plants, by express, per dozen \$3.00, per 100 \$23.00.

PANICULATA GRANDIFLORA HYDRANGEA—The most popular of all shrubs. Unsurpassed for the lawn, a hedge, or cemetery planting. Attains a height of 5 to 7 feet; is hardy in all localities and in July and for two or three months the flowers are massive, cone shaped, sometimes 10 inches in length, changing from white to pink and finally to a beautiful, rich, coppery red. Each 20c, doz. \$2.00. Per 100, by express, \$15.00. Large dormant plants each 40c, doz. \$4.00. **Special.**—Two-year-old plants grown specially for hedges, by express, per 100 \$30.00, 25 for \$7.50.



SNOWBALL

SPIREA

BILLARDI.—A strong growing variety; pink flowers. Each 20c; large plants 50c.

PRUNIFOLIA.—Symmetrical plant bears long, graceful sprays of pure white flowers in profusion. Blooms in May. Hardy. Each 25c, large 75c.

DOUGLASII.—Somewhat larger flowered than Billardi. deep rose-colored flowers. Each 20c, large plants 50c.

ANTHONY WATERER.—Grows 18 to 36 in. high, and is covered from spring until fall with large heads of crimson flowers. Fine for borders. Each 20c, dozen \$2.00; large 50c, dozen \$5.00.

VAN HOUTTEI.—(Bridal Wreath.)—Fine compact clumps with pure white flowers borne in masses drooping gracefully. Each 15c, dozen \$1.50, 100 for \$10.00 Large, each 30c, dozen \$3.00. 100 by express, not prepaid, \$20.00.

THUNBERGII.—Slender, gracefully drooping branches. Has single white flower. Blooms early. Large plants each 50c.

TAMARIX

Foliage is light, feathery and graceful sage blue in color and very striking. It blooms through summer and autumn; the flower is pink. Each 20c; extra large 50c.

VIBURNUM

OPULUS.—(High Bush Cranberry)—Has handsome and dense foliage. The flowers are white in drooping flat cymes and are followed by brilliant scarlet fruit in showy bunches remaining on the plant all winter. Each 20c; large plants each 50c.

WEIGELIA

ROSEA.—Of robust but graceful growth, 5 to 6 ft. high; it produces immense numbers of superb large trumpet-shaped flowers in June and July, also some in the fall. The plants frequently have more flowers than leaves. Each 20c, doz. \$2.00. Large plants 50c, doz. \$5.00.

EVA RATHKA.—A splendid new variety. Has large purplish red flowers with rich, creamy white markings. Each 25c, large plants 60c.

VARIEGATED.—A neat, dwarf shrub; variegation of green, yellow and pink in its leaves; flowers delicate pink. Each 25c, large 75c.

GRANDIFLORA WHITE.—Flowers are pure white, without shade or markings. Each 25c, large plants 75c.



HEDGE OF AMURENSIS PRIVET

LILAC

PERSIAN.—Strong growing shrub, bearing large, fragrant clusters of purple flowers very early in spring. Large plants 75c.

FIERY PLUME.—A novelty in lilacs. The brightest and nearest red flower of all the lilacs. Very showy and desirable. Large plants 75c.

NEW DOUBLE WHITE.—A recent novelty of great merit. The truss is of large size and produced in profusion. The individual flowers resemble miniature tuberoses. Large plants 75c.

COMMON.—The old standard variety with bluish purple flowers. Large plants 60c.

SINGLE WHITE.—Like above, but has white flowers, making it more desired by some. Large plants 75c.

PURPLE FRINGE

Commonly called Smoke Tree. Large shrub with long, feathery flower stalks, giving it the appearance of being covered with a cloud of smoke. Each 50c.

SAMBUCUS

GOLDEN LEAF ELDER.—The most showy of all shrubs for the lawn. It grows about 6 feet high and has wide spreading branches. Its leaves are of dark, dazzling yellow color. Each 40c.

CUT LEAF.—Leaves are nicely serrated making it attractive. Each 40c.

SYRINGA

GRANDIFLORA.—One of the strongest growing varieties, with lovely, large, very fragrant flowers. Each 20c; large plants 40c.

LE MOINEI.—A charmingly fragrant variety. Flowers are yellowish white. Each 20c; large plants each 50c.

SNOWBALL

COMMON.—A well known and popular shrub covered with dense white flowers, which gives it its name. Each 20c; large plants each 50c.

JAPAN.—A valuable improvement on the common Snowball; flowers are smaller and more numerous; often as many as twenty on a stem 18 inches high. Each 20c; large plants each 50c.



SPIREA VAN HOUTTEI (Bridal Wreath)

SYMPHORICARPUS

RACEMOSUS.—(Snowberry.)—Bear small pink flowers, followed by large white berries, which hang on most of the winter. Very showy and desirable. Small plants 15c, large 30c.

VULGARIS.—(Coral Berry.)—Nice hedge plant, growing naturally graceful, 2 to 3 feet high. It is frequently seen growing wild in meadows and in woodlands. Each 15c, large plants, by express, per dozen \$3.00, 100 for \$20.00.

HEDGE PLANTS**PRIVET**

CALIFORNIA.—A most vigorous grower of compact and regular form; foliage is a beautiful shade of glossy, wax-like green which it retains well into the winter, being almost an evergreen. Sometimes winter kill in this latitude but is hardy throughout the east and south. For hedges plant 8 to 10 inches apart. Strong one-year-old plants per dozen, \$1.00; per 100 \$7.50, prepaid. By express, 6er 100 \$6.00; 500 for \$28.00.

ARMURENSE.—Makes a splendid formal hedge about a home in city or suburbs. Is a very handsome plant with glossy leaves and almost an evergreen. Stands the severest winters. Hardest of all privets and the most popular among northern planters. South of Iowa line the California variety is generally more popular. Each 20c, dozen \$2.00, 100 \$16.00, prepaid. By express, 100 for \$14.00.

BARBERRY

THUNBERGII.—A very pretty variety from Japan; dwarf, graceful habit; foliage is small, changing to beautiful bright red early in fall; showy. One of the prettiest hedge plants ever grown. Large plants 35c; dozen \$3.50. By express, per 100, \$25.00.

IF YOU WANT ANY KIND OF SHRUBS, EITHER LARGE OR SMALL, IN QUANTITY. FOR MASS PLANTING, WRITE FOR PRICES

HARDY VINES

In making a home, plan for future beauty, comfort and happiness by planting a variety of hardy clematis, ornamental vines, shrubs and roses which will constantly grow in beauty and size. Such permanent improvements add greatly to the value of any property, and the value grows from year to year, so that instead of an expense they should be considered a paying investment. We prepay postage or express charges at these prices.

AMPELOPSIS

VEITCHII.—(Boston Ivy.)—One of the finest climbers for covering walls, as it clings firmly to the smoothest surface, covering it with overlapping foliage, giving the appearance of being shingled with green leaves. Should be slightly protected the first winter, but after that it will be found entirely hardy in the most exposed places, attaining a height of 20 to 30 feet in two or three years, clinging to stones, brick or woodwork with the greatest tenacity. It is a great protection to houses, as the leaves, lapping over each other like shingles on a roof, effectually prevent the rain from penetrating the walls. For covering dead trees, gate posts, boundary walls, etc., it has no equal. In the summer the foliage is a rich shade of green, but in the fall it assumes the most gorgeous tints of crimson, scarlet and orange, so dazzling as to be seen at a great distance. Each 25c; doz. \$2.50. Large plants 60c; doz. \$6.00.

ENGELMANII.—This is an improved Woodbine which bears very large, dense and abundant foliage. The leaves are glossy light green in summer, changing to brilliant crimson in autumn. Clings to rough stone or brick without support and has the upright manner of growth of the Veitchii and is preferred because of its much heavier growth of leaves. Each 25c; large 50c.

ARISTOLOCHIA

DUTCHMAN'S PIPE VINE.—The well known, vigorous and rapid growing climber used so extensively for archways or verandas. It takes its name from the singular brownish colored flowers, resembling in shape a pipe. The leaves are heart-shaped and retain their color from early spring to late fall. Each 25c; large 75c.

AKEBIA QUINATA

A perfectly hardy, fast-growing Japan vine, producing flowers in large clusters, of chocolate purple color, possessing a most delicious perfume; unsurpassed for covering trellises and verandas; the foliage is never attacked by insects. Each 25c; large 75c.

APIOS

TUBEROSA.—Valuable, hardy, tuberous-rooted climber, resembling in miniature the Wistaria vine, and having clusters of deep purple flowers which have a strong violet fragrance. They grow to a great height, and bloom profusely. Plant several bulbs close together to produce a mass of vines and flowers. Each 10c; dozen \$1.00.

BITTER SWEET

A native climbing or twining plant; large leaves, yellow flowers, orange capsuled scarlet fruit. One of the most popular of native plants, as its beautiful seed pods are prized for winter decoration. Each 20c; large 50c.

CHINESE KUDZU VINE

JACK-AND-THE-BEAN-STALK VINE.—The phenomenal growth of this vine can hardly be imagined—sometimes 12 inches a day. Large leaves of bright green afford a dense shade. Valuable, rapidly covers arbors, fences, trees, rockeries, etc. Grows 50 to 75 feet when well established. Each 25c; large size 50c.

CINNAMON VINE

A tuberous-rooted, hardy vine which is also listed among the summer bulbs. Large tubers each 15c; 2 for 25c; doz. \$1.25. Bulblets from which the large tubers can be grown in one season, doz. 20c; 100 for \$1.

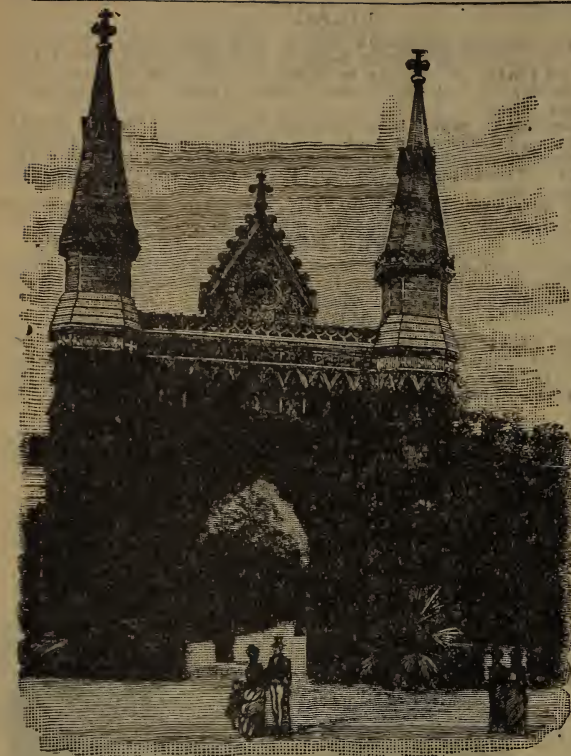
CHINESE MATRIMONY VINE

LYCIUM.—A very vigorous growing shrubby climber perfectly hardy and desirable for training on trellis, wall or fence. Every new shoot becomes filled with small purple flowers, followed by brilliant scarlet berries which remain on the vine until late in the winter. Although flowers are not showy, the long stems droop gracefully and make an admirable covering for the porch. Each 15c.

CAMELIA VINE

BIGNONIA RADICANS
In the Camelia Vine (*Calystegia Pubescens*) we have a flower of true Camelia shape and size, perfectly double and of most beautiful rose color. Of easiest culture, growing well in any soil or location. Vine is of rapid growth, quickly covering trellis or porch and growing to a height of five to ten feet. For best results set 12 to 18 inches apart. Leaves are lance shape, dark green, and lap like shingles. Roots live over winter. Blooms from May to October. Each 25c; dozen \$2.50.

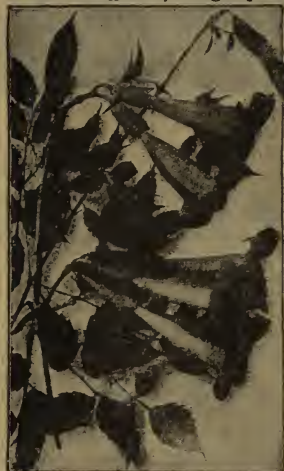
CAMELIA VINE



AMPELOPSIS VEITCHII OR BOSTON IVY

BIGNONIA

RADICANS.—(Trumpet Creeper.)—An old-fashioned hardy climber. Very desirable for covering unsightly places, stumps, old fences, and also fine for any spot when showy flowers are desired. It has clusters of large, trumpet-shaped crimson flowers with orange throat. Grows in almost any soil under trying conditions; hardy. It is one of the most popular of the hardy vines, and is useful and beautiful for any situation. Each 25c; large plants 60c.



BIGNONIA RADICANS



ARISTOLOCHIA

They grow

close together to produce





CLEMATIS JACKMANII CLEMATIS HENRYII CLEMATIS PANICULATA

HARDY CLEMATIS

The most popular climbing plant of the day, and is constantly gaining in popularity—and why should it not?—as it is hardy, standing our most severe winters with but slight protection; grows rapidly and blooms freely during the entire season.

JACKMANII.—Most magnificent and showy vine in existence; of strong, healthy growth, perfectly hardy and sure to succeed anywhere. Flowers four to six inches in diameter, of a rich, deep velvety purple, distinctly veined. It is a prince among all hardy flowering vines. It is especially adapted to open lawns or house fronts in the city or country. Strong plants, each \$1.00.

HENRYII.—This may be briefly described as a white-flowered Jackmanii. It is the finest of all white sorts; the same size as Jackmanii. Each \$1.00.

MAD. EDOUARD ANDRE.—An entirely distinct and beautiful new variety, being the nearest approach to a bright red ever sent out. Has the same vigorous growth, hardness and freedom of bloom as the above, while the color is a pleasing carmine red. Each \$1.00.

PANICULATA.—This small-flowered variety of Clematis is one of our most beautiful, hardy, fall-blooming vines. The flowers, which are pure snow-white, are produced in immense clusters, fairly covering the plant with a mass of fleecy-white; deliciously fragrant. Of extreme rapidity of growth. Each 35c. large, extra strong plants 75c.

COCCINEA.—A charming variety. Flowers are bell-shaped, brilliant coral red color. A rapid grower and free bloomer, flowering from June until frost. Perennial, about 12 ft. high. Each 35c.

VIRGIN'S BOWER.—(Clematis Flammula.)—An old-fashioned popular climber, growing to a height of 20 feet, and covered with fragrant flowers. The vine is perfectly hardy, rapid growing, graceful, and will succeed anywhere. Each 25c; large 50c.

CLEMATIS COLLECTION

A great bargain. A large plant of each of above kinds of Clematis for only \$4.00, postpaid.

HOP VINE

A vigorous, hardy, ornamental vine, for covering old trees, outbuildings, fences, etc. Produces the hops of commerce. Grows 50 feet high in a single season. Is both ornamental and useful. Each 25c; dozen \$2.50.

SILK VINE

PERIPLOCA GRECA.—Beautiful rapid-growing climber, 30 to 40 feet high; hardy. Leaves glitter like silk, hence name. Flowers purplish brown and borne in clusters. Large 50c.

WOODBINE

VIRGINIA CREEPER.—A strong, rapid grower; foliage large, dark green; in autumn bronze and crimson. This is an old favorite and quite common in most localities. Valuable for covering back porches, out-buildings, arbors, etc. Each 20c; doz. \$2.00. Large size 35c; dozen \$3.50.

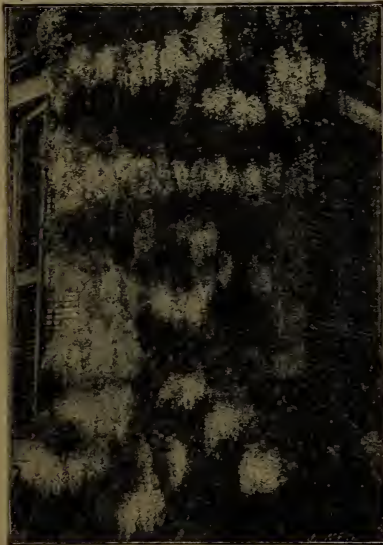
WISTARIA

BLUE CHINESE.—A very rapid grower, and one of the most beautiful of all climbers. It is perfectly hardy, climbing to a height of fifty feet; when covered with bloom it is magnificent. Each 25c; large 75c.

WHITE.—Similar to above; flowers white. Each 25c; large 50c.

HARDY VINE COLLECTION

One *Ampelopsis*, for the buildings; one *Clematis Paniculata*, for the front porch; one *Honeysuckle*, for the trellis in the front yard or on the lawn; one *Bignonia* (Trumpet Creeper), for the fence or screen. These are specially selected for the purposes mentioned but can be used to advantage in many different ways. We send one each of the beautiful vines postpaid for 95c, or will send extra large, strong plants suitable for immediate effects for \$2.00.



WISTARIA.

HONEYSUCKLE

RED CORAL.—A shrubby climber and one of the most satisfactory of all plants. Has been a favorite for many years. The odd-shaped foliage is showy and attractive and it produces its bright red, fragrant, trumpet-shaped flowers almost continuously. Nice for a hedge or for training over a residence. Large plants 50c.

HALLIANA.—(Hall's Japan.)—For real home vines to climb over your windows and doorways there is nothing prettier than the Honeysuckles, and the Halliana is considered by many the sweetest and most beautiful of all. It is now planted in many places on terraces and allowed to run naturally, and it makes a lovely show treated in this way. It is a strong, rapid grower, perfectly hardy and almost an evergreen even in this severe climate. Blooms constantly and profusely from June to November. Flowers pure white changing to yellow, and of peculiarly delicious fragrance. Fine for trellises or pillars. Foliage bright, glossy green; makes dense shade. Each 20c. doz. \$2.00. Large two-year-old plants 40c; doz. \$4.00.

GOLDEN LEAVED.—Slender, moderate grower; leaves are beautifully veined and netted with bright yellow; flowers yellow and sweet-scented; fine for pillars and trellises. Each 20c; large 50c.

HONEYSUCKLE COLLECTION.—An offering of useful and ornamental vines at an attractive price. One each of the three varieties above, offering distinct types, large plants \$1.25, postpaid.



RED CORAL HONEYSUCKLE

GREENHOUSE DEPARTMENT



Iowa Seed Company's Thirty-two Greenhouses

Our greenhouse department is better equipped to care for a mail order plant trade than any establishment in the west. We have 32 large greenhouses besides a number of steam heated hot beds and cold frames. Special attention is given to growing plants for our mail customers. Our business in this line covers the entire country and we constantly fill orders from every state and ship many orders to foreign countries. Our system of packing is complete and careful. This department is under the personal supervision of Mr. C. W. Davison, a director and stockholder in our company. He has had an experience of many years in conducting this branch and every order received gets his personal care.

Separate Plant and Seed Orders.—We send two order sheets with this book. Use one for seeds and the other

for plants as designated. The plant orders go direct to the greenhouse for filling and are kept on file there. Such use of the order sheet will save time and expense.

Terms.—At the prices named we send plants by mail postpaid except where noted. Orders must amount to at least 25 cents, for if of less amount they are filled at a loss.

Special Express Rates.—The consolidated express company continues to carry plants at second class rates, which are cheaper than ordinary merchandise. In shipping by express at customer's expense for carriage we leave the dirt on the roots unless instructed to the contrary.

We Guarantee plants ordered to reach purchasers in any part of United States in good order by mail or express. Complaint must be made immediately on receipt of goods.

ABUTILON

SAVITZI.—A most beautiful new variegated-leaved plant. Its maple-like leaves are almost white, being blotched here and there only with clear bright green; very large, orange-colored, bell-shaped flowers. Each 20c.

ECLIPSE.—A splendid variety for baskets and vases; foliage marbled green and yellow; flowers scarlet and orange buff. Each 20c.

SOUVENIR DE BONN.—A striking decorative foliage plant with beautiful variegated leaves of good size, regularly and evenly marked with white and green. Very large, graceful, drooping, orange-colored flowers. Each 20c.

ARTHUR BELSHAM.—Green foliage. Flowers large, dark red without markings. Tall and erect. Strong grower, free bloomer; a satisfactory variety. Each 20c.

GOLDEN BELLS.—The best yellow flowering variety; of dwarf habit. Each 20c.

DAY DAWN.—Color a bright, clear pink, a pleasing and lovely shade. Each 20c.

ABUTILON COLLECTION.

One each of the six Abutilons named above, postpaid, for only \$1.00.



GOLDEN BELLS ABUTILON

ASPARAGUS

PLUMOSUS NANUS.—One of the handsomest of our foliage plants for pot culture, beautiful the year round, and there is no more decorative plant in the entire list. Easily grown, even in a north window. Leaves bright green, gracefully arched, and as finely woven as the finest silken mesh; their lasting qualities, when cut, are remarkable, retaining their freshness for weeks. Each 20c; large 40c.

SPRENGERI.—A splendid new plant for hanging baskets or pots. It droops most naturally, sending out numerous feathery fronds which, in a short time, make a growth of 3 to 6 feet, forming an exquisitely handsome and striking picture. It produces small white flowers which are succeeded by red berries. A well established plant is literally a mass of emerald green. Each 20c; large size each 40c.



ASPARAGUS PLUMOSUS NANUS



ASPARAGUS SPRENGERI

NOTICE

We ship all plants as soon after order is received as weather permits. Bedding plants we will hold until usual season for setting out. If plants are ordered during winter for immediate shipment they will be sent at buyer's risk.

ACHYRANTHES

Beautiful foliage plants; useful for carpet beds and masses. Stand heat and sun without losing color and shear without injury. Each 15c, doz. \$1.50, 100 for \$10.00.

DE BAILEY.—Red and green markings on brown leaf.

COLLINSII.—Green and yellow, narrow, pointed leaf.

LINDENI.—Solid dark purple color, narrow, pointed leaf.

EMERSONII.—Color is purplish crimson, round leaf.

WE EXPECT TO PLEASE YOU WITH THE STURDY, THRIFTY CHARACTER OF THE PLANTS WE SEND OUR CUSTOMERS.



CHENILLE PLANT
ANTHERICUM

A new variegated decorative plant, useful, when small, as center to jardiniers. Larger plants are very attractive in porch boxes and hanging baskets. The leaves are only about six inches long, dark green, with a bright yellow center; the crest of each flower stem reproducing a new plant complete. Each 20c, dozen \$2.00.



ENCHANTRESS ASTER

ASTER PLANTS

BEST VARIETIES MIXED.—Price is low and you should have a fine bed of these. Dozen 25c, 100 for \$2.00, prepaid.
SNOWDRIFT WHITE.—Dozen 35c, 100 for \$2.25.
ENCHANTRESS PINK.—Per dozen 35c, 100 for \$2.25.
HEART OF FRANCE.—Crimson. Per dozen 35c, 100 for \$2.10.
ROYAL PURPLE.—Dozen 35c; 100 for \$2.25.

BANNER ASTER COLLECTION

One dozen Heart of France, one dozen Snowdrift and one dozen Royal Purple—enough for a beautiful bed—worth at catalogue value, \$1.05.

Three dozen choice plants for only 75 cents, postpaid.

ACALYPHA

BICOLOR.—Brighter and more attractive for bedding than Coleus. Leaves bright green margined with band of lemon yellow, dotted and splotted with the same color. Each 15c.

TRICOLOR.—Mottled and blotched with crimson and scarlet on green background. Maintains its markings in summer heat. Each 15c.

MARGINATA.—Foliage bronze green, margined with the same color. Each 25c.

SANDERI.—(Chenille Plant.)—A most striking ornamental plant of branching habit. The flower spikes, which appear in pairs from the axis of the leaves, grows 2 to 3 feet in length. They are bright crimson and mix among the green foliage with charming effect. Each 25c.

One each four Acalypha, postpaid, for 75c.

AGERATUM

PRINCESS PAULINE.—Of dwarf, compact habit rarely exceeding 5 inches in height. Blue and white colors combined in one flower. Blooms entire season bright and pretty. Each 15c, doz. \$1.50.

STELLA GURNEY.—Deep, even blue. Literally forms a sheet of bloom all summer. Dwarf, compact growth. Each 15c, dozen \$1.50.

INIMITABLE.—This is a light blue-lavender shade. Handsome. Each 15c, dozen \$1.50.

LITTLE BLUE STAR.—Very dwarf, 6 to 8 in. Blooms all summer. Each 15c, dozen \$1.50.

WHITE SWAN.—Pure white; fine for borders or beds. Each 15c, dozen \$1.50.

ONE EACH OF FIVE AGERATUMS, 75c.



GIANT WHITE
ANTIRRHINUM

ANTIRRHINUM

The Antirrhinum is a general favorite for both outdoor and indoor planting. Desirable for decorations in tall vases as cut flowers. Succeeds without extra care. The giant varieties surpass the old-fashioned sorts in every way.

GIANT WHITE.—Perpetual bloomer, producing dozens of long spikes of beautiful pure white flowers. Blooms last two weeks. Ea. 15c, doz. \$1.50.

GIANT YELLOW.—Like white, but color is pure lemon yellow. Each 15c, dozen \$1.50.

KILLARNEY PINK.—The peculiar pink shade seen in the Killarney rose. Each, 15c, dozen \$1.50.

GIANT RED.—Bright, brilliant flower; offered special to complete collection. Each 15c, doz. \$1.50.

ONE each, four colors, Antirrhinum, postpaid, 50c.

BOUGAINVILLEA

SANDERIANA.—A beautiful plant of strong and rapid growth. The brilliant, rosy crimson blossoms are produced from early in March until midsummer. Desirable plant for conservatory or window garden. Each 25c.

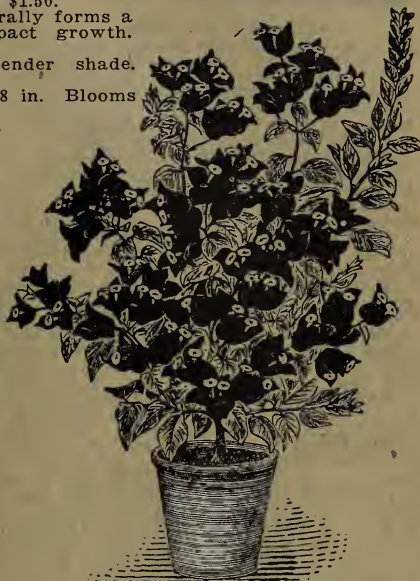
BUTTERFLY BUSH

BUDDLEIA.—The Buddleia is a magnificent new shrub. It is hardy, thrives in all sorts of soils, grows vigorously from two to three feet high, and blooms the first season from spring planting. Flowers are soft shade of lilac color borne in dense spikes, 12 to 15 in. in length and 3 in. in diameter. Each 25c, dozen \$2.50.

ASIATICA.—The white Butterfly Bush, with pure white fragrant flower-spikes, larger and finer than the above variety. Not quite hardy in the North. It is a glorious pot plant for winter blooming. Each 25c.



PRINCESS PAULINE AGERATUM



BOUGAINVILLEA.



BUDDLEIA

BEGONIAS

Begonias are greatly prized by lovers of house plants generally. The Rex types are perhaps the most magnificent of all foliage plants, while many of the flowering sorts present a wonderful mass of blossoms, and all are beautiful.

ARGENTEA GUTTATA.—Has purple bronze leaves with silvery markings. The flowers are white. A very vigorous, strong growing variety of the easiest culture and always satisfactory. Very popular. Each 25c.

ALBA PERFECTA GRANDIFLORA.—We doubt if there is a white flowering variety that equals it. The foliage resembles Rubra in shape but is lighter green, while the flower panicles are much handsomer. It is a pure white flowering Begonia of much merit. Each 20c.

ALBA PICTA.—Leaves of a glossy green color, thickly spotted with silvery white. Flowers white. Each 15c.

BEEFSTEAK.—(Warszewicz.) The old fashioned Beefsteak Begonia, with thick rounded leaves of deep green with red on reverse side. Ea. 20c.

CAROLINE LUSERNE.—A splendid upright vigorous grower, with long leaves of spotted olive green, a bright wine-red beneath. Enormous trusses of perfect coral-red flowers make this variety one of the showiest and most desirable kinds in cultivation. Each 25c.

GRACILIS LUMINOSA.—A magnificent new specimen of the Semperflorens type, with flowers large, perfect and plentiful, and never out of bloom. Color the brightest scarlet. Each 20c.

HAAGEANA.—Flowers rosy pink, bright and attractive. Plant tall. Shrubby with hairs on stems and leaves. Each 25c.

MADAM DE LESSEPS.—Has very large leaves of silky texture beautifully spotted with silver. Flowers pink and white. Ea. 20c.

MARGERIE DAW.—A beautiful trailing sort. Bright salmon flowers in broad panicles. Green "angel wing" leaves. Each 20c.

METALLICA.—This elegant variety has very large leaves shaded with green, crimson and olive, with a peculiar metallic luster. Flowers clear pink, shaded white. Each 25c.

MINIATA.—A beautiful variety of upright bushy style of growth; flower bright scarlet. They are very free flowering. Each 15c.

PROFUSION.—A new French variety of vigorous growth. Flowers are bright pink, produced evenly all over the plant. Each 15c.

PICTA ROSEA.—A wonderfully free flowering begonia of sterling worth and great beauty. The plant is very compact in growth, forming a dense, well proportioned bush with rich green foliage, spotted with silver. The flower is rosy flesh color, shaded with silvery pink, and enlivened with dense clusters of yellow anthers. It blooms constantly. Ea. 25c.

PRESIDENT CARNOT.—Bears large panicles of beautiful coral red flowers. Upright grower; foliage green above, purplish red underneath. Handsome. Each 20c.



VERNON BEGONIA



OTTO HACKER

OTTO HACKER.—In a class by itself. A strong, vigorous grower, of fine upright habit, with large shining deep green leaves eight to ten inches long. Flowers bright coral-red, borne in immense clusters eight to ten inches across. Each 20c.

REX.—The Rex or King Begonia may well be called the king of foliage plants and they make a magnificent showing with their rich lustrous tints and tropical looking leaves. There are many different varieties, presenting a great range of beautiful markings and splendid color effects. Best results in moist and shaded situations, making it the very finest plant for household decoration. We have a particularly choice stock of these. Each 50c.

SANDERSONII.—A variety growing in compact, bushy form, with deep, glossy green leaves and scarlet flowers in drooping clusters. Each 20c.



REX BEGONIA

RAINBOW BEGONIA COLLECTION

One each of the four following extra choice varieties: *Argentea Guttata*, *Metallica*, *Picta Rosea* and *Thurstonii*. Described on page 99 and illustrated in colors on page 100. Postpaid for only \$1.00.

RUBRA.—This fine variety is a constant bloomer. Heavy, waxy green leaves. Flowers rosy scarlet. Each 20c.

THURSTONII.—Stately with handsome glossy leaves. Remarkable foliage. Under side of the leaves rich purplish red, with prominent veinings. Upper side bronzy green, shaded crimson and olive and a metallic luster over all. Flowers rosy white. In clusters. Each 25c.

VERNON.—Will stand the hot summer sun in beds. Flowers of pink, blush and brilliant red, foliage sometimes margined with bronze purple. Each 15c; dozen \$1.25.



PICTA ROSEA

BRYOPHYLLUM

A curious plant. Leaves thick and heavy and when cut and placed in moist soil little plants start from notches in them and make strong plants in short time. Flowers look like long, green, red striped pods, through which breaks a pointed tube of dull red shade. Each 15c.

BLOOMING CACTUS

The cactus here listed are greatly prized by lovers of house plants. Well grown specimens are very attractive and the blooms are beautiful.

NIGHT BLOOMING CEREUS.—This gorgeous cactus bears abundant pure white blossoms measuring twelve inches across. A plant loaded with these flowers is a sight never to be forgotten. Blooms at night and is very fragrant. Better order one and call your neighbors in to see it bloom. This is the true round stemmed variety and not the common flat leaved sort. Each 20c.

FLAT LEAVED CEREUS.—The common sort, similar to the above, except in form of stem. A good bloomer and desirable. Each 20c.

CHRISTMAS CACTUS.—(Epiphillum.)—Also known as Lobster Cactus. Stems branching and hanging in bunches. Flowers bright red; blooms freely. A popular and beautiful house plant. Each 20c.



BRYOPHYLLUM



NIGHT BLOOMING CEREUS.

CARNATIONS

Fragrant flowers are always sought after, and the rich, spicy odor of the carnation, combined with its various colors, leaves little to be desired. They are easily grown and bloom freely.

BENORA.—A handsome variegated variety, color white with irregular streaks of red. A beautiful composite flower which is very popular. Each 20c.

ENCHANTRESS.—A charming variety of immense size and delightful blush pink color. The original of this popular Enchantress type of carnation which is the favorite with all florists. Each 20c.

HARLOWARDEN.—A bright, dazzling crimson flower a very free bloomer, bearing flowers on long stems, making it very desirable for amateurs. Included in Matchless Collection. Each 20c.

HERALD.—A bright and beautiful shade of scarlet. Plant a good grower, strong and free blooming. Flowers are large and it is really a beautiful and desirable sort. Each 20c.

MATCHLESS.—A pure white flower of extra large size, perfect in form and of great substance. Plant vigorous, bearing the flowers on long stiff stems. Petals are beautifully fringed, while blooms are exceedingly fragrant. A comparatively new variety, but is generally given first place among white carnations because of its general excellence. Each 15c, dozen \$1.50.

MRS. ACKERHURST.—A new bright pink variety of special value. It is not only lovely in color but it is strong, vigorous and free flowering. You will be greatly pleased with this. Each 20c.

MRS. C. W. WARD.—This is a beautiful deep pink shade, somewhat lighter than Mrs. Lawson, but is of better growth, more vigorous and thrifty than that popular sort. Extra large flowers on strong stems. Each 15c.

NEBRASKA.—A fine deep red flower. We offer this variety as the best of this type. It will bloom freely while it gives better results as a pot plant for amateurs than most sorts. In every collection the red shades are appreciated and if you want a dark red carnation you will admire and prize a nice plant of Nebraska. Each 25c.

SUPREME.—Claimed to be the finest pink carnation in the list. Not only distinguished for perfect form and large bloom but the color is also a decided factor in its popularity. We recommend it and you should include it in your order. Each 20c.

THENANTHESIS.—A splendid, brilliant scarlet flower and is perhaps the most popular color in carnations. It is recommended not only for its beautiful color, but also for the vigor and productiveness of the plant. Each 20c.

WHITE WONDER.—Large, nicely filled flowers of the purest white. Not only good for large sized blooms when given special care, but they are valuable for garden planting and pot culture. Very sweetly scented with that delightful old-fashioned clove fragrance lacking in many of the newer carnations. Each 20c, dozen \$2.00.

MATCHLESS CARNATION COLLECTION

Five extra large flowering sorts of different colors: Enchantress—Pink; Matchless—White; Mrs. C. W. Ward—Pink; Harlowarden—Crimson; Nebraska—Bright red. ONE EACH OF ABOVE 75c.



SUPREME

CHRYSANTHEMUMS

These are now, and deservedly, the most fashionable of all autumn flowers. All these varieties are excellent for pot culture, and the best of their class. Attract universal attention at great flower shows on account of large size, exceptionally fine shape, and handsome colors. Their large size is of course especially noticeable when grown as a single stem and only one flower is allowed to develop on each plant.

INTENSITY.—A dark, velvety crimson. No reverse is noted as the petals are solid color. Form recurved, solid. The most satisfactory solid red chrysanthemum. A few red blooms stand out in fine contrast in mixed bouquets. Each 25c.

DR. ENGUEHARD.—Very large size and solid appearance. A true bright pink, one of the largest and best ever introduced; handsomely incurved and pleasing in appearance. Blooms early in November. A splendid pot plant with stiff stem and healthy foliage. Each 15c.

GOLDEN AGE.—One of the best of the solid yellow 'mums. Color, habit and form all that might be desired. Will prove a favorite with all. Each 15c.

WHITE CHIEFTAIN.—A new white variety. The close compact blooms are the most popular type and no other sort carries so firm a flower. A strong, sturdy plant. Each 15c.



EARLY SNOW

CHIEFTAIN.—This is well named. It is chief in size, color, form and vigor. Color is a bright shining pink, with a soft richness of tint that makes it an aristocrat among the pink varieties. It is frequently 24 inches in circumference, and its great size is one of its chiefest claims to supremacy. Petals are incurved and form of blossom is compact, although as the flower ages the petals gradually separate into a loose form. Plant is a strong, upright grower. Each 25c.

TRI-COLOR CHRYSANTHEMUM COLLECTION

Extra Early Blossoms of Large Size.

EARLY SNOW.—The earliest of the large pure white sorts. Comes into bloom in September and is valued for its splendid form and adapts itself readily to amateur culture. Each 20c.

GOLDEN QUEEN.—The earliest of the mammoth yellow flowered sorts. Is easily grown and very desirable for the amateur. Each 20c.

GLORIA.—A superb extra early clear pink, offered in this collection because it blooms far ahead of most chrysanthemums. It is the earliest pink. Each 15c.

ONE EACH OF THE ABOVE THREE EARLIEST KINDS — BLOOM BEFORE FROST — POSTPAID. 45c.

CHAS. RAGER.—(Improved Eaton.)—Fine, large and pure white; incurving with outer petals reflexed. Sure to give satisfaction. Each 15c.

PERCY PLUMRIDGE.—Buttercup yellow. A Japanese incurved variety with bright, shining color, attracting special attention. Each 15c.

DOLLY DIMPLE.—Popular yellow sort, because of early bloom and unique flower. A strong, vigorous plant with bloom of large size. Each 15c.



INTENSITY



GLORIA

ROMAN GOLD.—As indicated by the name, it is of golden yellow color. Blooms are very large, incurved petals, close, beautiful form. Each 15c.

SENSATION.—A mammoth flowered variety, bright shining pink in color, strong and vigorous in growth. Very early and fine for a pot plant. Ea. 15c.

TIMOTHY EATON.—A globular Japanese incurved variety of perfect form and growth. Color pure white when fully developed. A prize winner at all shows last fall. Each 15c.

YELLOW EATON.—Immense flower of a bright golden yellow color. One of the finest varieties of this color. Each 15c.

JAPANESE CHRYSANTHEMUM COLLECTION

Our superb offer of the finest large Chrysanthemums selected as the choicest for home blooming.

SEDGWICK.—A new pink sort with large blooms, close, compact flowers, strong, sturdy habit and altogether desirable. Will be satisfactory in any collection. Each 15c.

HARVARD.—A new crimson chrysanthemum of splendid form and magnificent full double solid flowers. Offered as the best red sort. Each 20c.

WM. TURNER.—Incurved type of bloom, solid and very large. Clear, pure white. It is valued for its splendid form, growing semi-dwarf, very strong and vigorous, and adapts itself readily to amateur culture. Each 20c.

CHRYSOLOLA.—A splendid yellow-flowered chrysanthemum of perfect form and bright color. Large size and strong grower. Each 15c.

One plant each of the above four Japanese Chrysanthemums, only 60c.



LOUIS BOEHMER

LOYALTY.—A new variety which is to become a leader because of its beautiful growth. Color is the popular bright yellow. Prized for the beauty of the bloom. Each 25c.

LIBERTY.—A companion flower to the above, pure white in color. These new Chrysanthemums were selected because not only the blooms were extra large and fine, but the plants grow strong and vigorous, and with ordinary care produce immense flowers which delight the grower. Ea. 25c.

LOYALTY CHRYSANTHEMUMS

Four of the finest novelty sorts. One each Intensity, Chieftain, Liberty and Loyalty, postpaid for 75 cents.

SINGLE CHRYSANTHEMUMS

GOLDEN MENSA, yellow; **KITTY BOURNE,** white; **LADYSMITH,** pink; **BELLE OF WEYBRIDGE,** chestnut.

Any of these 15c each; or will mail the entire four for 40c.

POMPOM CHRYSANTHEMUMS

These small 'mums are popular again; give showers of bloom after most other flowers are gone.

MINTA, pink.

HELEN NEWBERRY, white.

KLONDIKE, yellow.

PANAMA, deep red.

MRS. FRANK BEAU, orange.

Any of the above each 15c; per doz. \$1.25. One each of five named for 50c.

COLEUS

Whoever has been in our large city parks will never forget the ornamental beds, curving and quaint designs and mingling arabesques of all colors—which look like varicolored rugs spread at short intervals on the smooth lawn. These are formed of Coleus. The following include the very best varieties.

PRICES.—All of the varieties of coleus named below each 10c; doz. \$1.00. Mixed varieties suitable for bedding, unnamed, 80c per dozen; postpaid, \$6.00 per 100, by express, not prepaid.

ADMIRAL DEWEY.—A better bedder and a brighter color than Verschaffeltii; color a bright crimson, edged maroon.

ANNA PFISTER.—Pointed leaves with deep scalloped edges. Color bright golden yellow intermingled with green and crimson. Of dwarf and compact but spreading habit.

BECKWITH'S GEM.—A new sort of striking appearance. The large leaves have fine scalloped edges. It shows four shades of color, center maroon, bordered red; edge green with point of yellow.

BIZARRE.—A striking variety, with leaf center of bright crimson and edged green and gold.

CHAMELEON.—Combining numerous shades of color in the leaf in such way as to form a specimen of great beauty.

CRIMSON BEDDER.—Purplish crimson.

DUNEIRA.—Crimson, with maroon center and scalloped light red edge. A fine, showy variety.

FIRE CREST.—Bright crimson, with slight golden yellow edge, blotch of deep bronze in center. Splendid.

GOLDEN BEDDER.—Color yellow. This is the best yellow coleus for bedding; deep gold in the sun.

GRACE ADAMS.—Green leaf with red crested edge. An attractive variety.

JAMES BRADSHAW.—A fine, showy variety with striped leaf showing colors of crimson and yellow.

JOHN PFISTER.—Like Anna Pfister in growth but bright crimson color; edged with gold.

MRS. F. SANDER.—Large, creamy white center, bordered green; blotched crimson and purple; fine for pots.

PROGRESS.—Beautifully mottled red, green and bronze. A charming combination of colors.

MRS. JOHN BOEHMER.—Rich maroon bordered golden band. Large pointed leaf.

SUNSET.—Center of leaf brownish purple, shading to crimson; edge yellow.

TRAILING BEAUTY.—Of trailing habit. Serrated leaves of fiery crimson; zoned maroon edged green.

VERSCHAFFELTII.—The oldest, still one of the best; rich, velvety crimson.



NEW VARIETIES OF COLEUS.

CARPET COLEUS BED

Fifty choice plants selected by us in varieties to produce a beautiful bed of colors for only \$3.00, by express not prepaid.



CROWN OF THORNS.



CYCLAMEN.



CHRISTMAS PEPPER

CHRISTMAS PEPPER

Surprisingly pretty house plant. A round, compact bush 12 to 15 inches in height with dark olive green leaves and covered with curious little heart-shaped fruits of bright colors—purple, white, yellow, orange and red on the same bush. Fruits are edible as small garden peppers. Each 15c.

CENTAUREA

GYMNOCARPA.—(Dusty Miller.)—Dwarf, silvery foliated plant used largely for ribbon beds or borders. Each 15c, dozen \$1.25.

CROWN OF THORNS

EUPHORBIA.—A very curious and remarkable window plant. Strong growing plant that can be trained over any desired form. Bright scarlet flowers. An object of rare and striking beauty. Is easily grown. It grows wild in Judea, and it is said that it was from this plant that the crown of thorns was made which was worn by our Saviour, and it is therefore of special interest. Each 25c.

CYCLAMEN

GIANT FLOWERED.—Foliage broad, massive, graceful, of dark green, beautifully variegated with silver and rose. Immense, fairy-like flowers; quite fragrant. In assorted colors. Each 25c, extra large size 35c.

DRACENA

INDIVISA.—(Fountain Plant.)—Quite generally listed among palms. It is a decorative plant about two feet high, with slender, drooping, green leaves, long and narrow. Each 15c, large 25c.



Cyperus or Umbrella Palm

CYPERUS

UMBRELLA PALM.—A very ornamental plant which throws up slender, round stems about two feet high, surmounted at the top by a whorl or flat, ribbon-like leaves, diverging horizontally. Should have abundance of water. Each 15c, larger 25c and 50c.



DRACENA INDIVISA

FERNS

FLUFFY RUFFLES.—(Scholzei.)—A new upright growing variety, darker and richer in color than any other fern in our list. Fronds are as finely cut as the Whitman or Elegantissima varieties, and exceeds either of these sorts in robust, hardy growth. The vigor, habit and color of this fern are so far superior to ordinary sorts that it will delight every lover of fine ferns. Each 25c; larger sizes 50c, 75c and \$1.00 each.

BOSTON FERN.—(Improved Sword Fern.)—This is a wonderfully healthy, rapid growing and graceful house plant which has been in great demand everywhere, and many people buy it in preference to the finest palms or rubber plants. Thrive in all rooms, gas or furnace heat does not seem to injure it. It is one of the most beautiful and useful of house plants, being of easy culture, and its sword-like fronds, on large specimens, attain the length of 5 to 6 feet, produced in bewildering mass, arching, curving and interlacing in every conceivable direction. Each 20c; large plants 35c and 50c and \$1.00.

ROOSEVELT.—An improved variety of Boston Fern, much more striking and attractive than the parent sort. It produces a greater number of fronds than the Boston, appearing more compact, bushier and handsomer. Fronds have undulating pinnae, giving them a wavy appearance not seen in any other fern. Very highly recommended by experts for its hardiness and beautiful appearance. It is our choicest recommendation of Boston Ferns for individual pot growing as an indoor decoration. Ea. 25c, large 50c.

TEDDY, JR.—A smaller fern than Roosevelt, but of same type and general characteristics. A fine, compact fern that will be popular because a fine specimen can be grown in much less space than any other of the Boston type. Each 20c.

WHITMAN.—Combining all the graceful pluminess and charm of Elegantissima, with additional features of shape, size and growth that give it distinguishment and added commercial value. Whitman is of more dwarf growth, but equalizes matters by compactness, and a wider, stockier shape. The fronds, although even more fine-cut, are more erect and less liable to revert to the original Boston type. Each 20c; large 50c; extra fine specimens \$1.00.

ELEGANTISSIMA.—This is a sport from the well known Ostrich Plume fern in which the plummy peculiarity of the original form is even more distinctly developed, the side pinnae being again subdivided, making both sides of the frond equally beautiful, while at the same time the plant is of much more compact habit, growing only one-half as tall, but with fronds nearly twice as wide, making it a much more desirable plant for all purposes. Each 20c; large plants 50c.

VERONA.—(Baby's Breath.)—An elegant small Ostrich Plume fern. Fully equal to the best of this type in pluminess and graceful form, but far more dainty and exquisite. The bright color, feathery fronds and elegant form make it a very notable specimen in any collection. A variety of recent introduction which gives promise of great popularity. Each 25c, large 50c.

ASPARAGUS FERNS.—Both the Asparagus Plumosus Nanus and Sprengeri, commonly known as Asparagus Ferns are illustrated and described on page 88. Price, either variety, each 20c; large plants each 40c.

OSTRICH PLUME FERN COLLECTION

BABY'S BREATH.—Dainty Ostrich Plume fern of finest habit.

ELEGANTISSIMA.—More delicate and finely divided than the above.

ROOSEVELT.—The compact, wavy type of the original Boston or Sword Fern.

WHITMAN.—The compact, wavy type of the Ostrich Plume varieties.

ONE EACH FOUR FINE OSTRICH PLUME FERNS POSTPAID FOR ONLY 75c.

DAINTY SMALL FERNS

MAIDEN HAIR FERN.—(Adiantum Cuneatum.)—Very popular. The most graceful and useful of all for cut flower work. Each 20c.

HOLLY FERN.—(Cryptomeria Falcatum.)—Rather broad, dark, glossy green foliage. Quite easily grown, very ornamental. Ea. 20c.

MOSS FERN.—(Selaginella Emilliana.)—Also called Lycopodium. Has delicate lace-like foliage. Fine for fern dishes and always beautiful. Each 20c.

CRESTED FERN.—(Pteris Wimsetti.)—One of the most popular of the small ferns. Striking lanceolated foliage; upright growth. Each 20c.

DAGGER FERN.—(Aspidium Tsussimense.)—A miniature sword fern. Specially adapted to small ferneries or fern dishes. Each 20c.

SILVER FERN.—(Pteris Victoricae.)—One of the newer sorts with lovely foliage, each leaf of which has a silver variegation through the center. Each 20c.

DAINTY FERN COLLECTION

One each of the above six fine table ferns, a most beautiful collection only \$1.00.



FLUFFY RUFFLES FERN



FROND OF ELEGANTISSIMA FERN



ASPIDIUM
TSUSSIMENSE



CRYPTOMERIA
FORTUNEI



BABY'S BREATH FERN

RAINBOW FUCHSIA COLLECTION

Four Choice Plants of This Lovely Flower
for Only 65 Cents.

No plant is more graceful and elegant than the Fuchsia; covered as they are during their blooming season with their beautiful satin-like drooping flowers. For window pot plants, or for partially shaded spots in the garden, where the plants are protected from the mid-day sun, few plants can equal the Fuchsia in gracefulness and beauty with their wealth of beautiful showy flowers continually maturing. The secret of success with Fuchsias is to keep the plants properly watered and nourished. Frequent application of liquid fertilizer is very beneficial, as the Fuchsia requires strong feeding.

Storm King The fine, large, brilliant flowered queen of Fuchsias. The sepals are a bright carmine red, while the large double corolla is a pure white with a faint tinge of rose at the base; the flowers are very large. Many of the Fuchsia flowers appear strong and bold from their coloring, but the Storm King appeals most because of its majestic flower and modest loveliness of color. Ea. 20c.

Jussicu This is really a wonderful giant flowering variety, producing blooms of exceptionally large size with superb coloring that attracts and delights the eye with its glorious hues. The tube and sepals are of bright, glowing crimson carmine, while the corolla is of a very rich violet purple, very double. The plant is a strong, vigorous grower, making a handsome pot plant. Each 20 cents.

Speciosa This is an old time favorite, greatly prized for its profuse blooming qualities. The best winter blooming Fuchsia that we know of. The sepals of the flower are more elongated than in any other variety, and are of a soft, rosy pink color. The corolla is of single form, of carmine color, making a beautiful and pleasing blossom. A well grown plant in bloom is a veritable flame of color, and the dainty flowers mingled among the glossy green foliage produces a wonderfully graceful and charming effect. Each 20 cents.

Black Prince This is without question the very finest single Fuchsia for the amateur to cultivate. Of upright and robust growth, it seldom fails to bloom profusely, and grow in good form and symmetry. It is worthy of a place in any collection because of actual merit. Tube and sepals bright carmine, sepals large and broad with pale green tips; large violet, pink corolla. Ea. 20c.

The Four above Fuchsias sent postpaid for only 65 cents



JUSSICU FUCHSIA

OUR RAINBOW BARGAIN PLANT COLLECTIONS

The eight beautiful plants named on this page including the Rainbow Fuchsias and Begonias postpaid anywhere in the United States for only \$1.50. Our premier plant offer of the year.

Rainbow Begonia Collection

Four Beautiful Types of These Gorgeous Decorative
Plants \$1.00 Postpaid.

The Flowering Begonias are among our most beautiful and satisfactory flowers for house culture and bedding. They grow nicely, make neat, handsome plants, bloom constantly, and their pretty, wax-like flowers and glossy, bright-colored leaves and stems are always greatly admired.

Thurstonii A beautiful stately plant with remarkably handsome glossy foliage. The under side of the leaves is a rich purplish red, the veinings are prominent, while the face or upper side is a bronzy green shaded with crimson and olive with a peculiar glossy metallic luster over all. The young leaves are a bright green shading to red giving the plant a thrifty rich appearance. Flowers are rose and white in large drooping clusters. Each 35 cents.

Metalica This is one of the most satisfactory of the Flowering Begonias, has very large elegant glossy leaves which are variously shaded—green, red, olive—the younger leaves especially having clear vivid coloring. The entire plant has that bright metallic luster, hence its name, blooms freely, flowers are bright rose pink and white. Each 25 cents.

Argentea Guttata A vigorous strong growing variety always handsome, has oblong purple bronze leaves with silver markings, giving it a singular but pleasing appearance. A satisfactory variety of easiest culture; flowers clear and satiny white. Each 25c.

Picta Rosea A wonderfully free flowering Begonia of sterling worth and great beauty. The plant is very compact in growth, forming a dense, well proportioned bush with rich green foliage, spotted with silver. The flower is rosy flesh color, shaded with silvery pink, and enlivened with dense clusters of yellow anthers. It blooms constantly. Each 25 cents.

THE FOUR ABOVE BEGONIAS SENT POSTPAID FOR ONLY \$1.00



THURSTONII BEGONIA

STORMKING

SPECIOSA

JESSICA

BLACK
PRINCE

ARGENTEA
GUTTATA

METALICA

THURSTONII
PINK

PICTA
ROSEA

RAINBOW PLANT COLLECTION

These 8 Plants for
\$1.50 POSTPAID

The 4 Fuchsias only for 65¢
The 4 Begonias only for \$1.00



NEW FUCHSIAS

These, when in full bloom, are the most graceful of all cultivated plants; nothing surpasses the beauty of well grown specimens. The most important points in the management of the Fuchsia is to keep the plants well watered and nourished. They should be kept away from excessive sunlight and heat. They respond splendidly to strong fertilizing.

PHENOMENAL.—(See Cut No. 1.)—Enormous flowers, a single one measuring 3 inches across; sepals are bright scarlet, rich purple corolla, very double, flaked with red. Grows upright, and with strong, vigorous trunk, making a handsome plant. Each 20c.

ROSAINES PATRIE.—(See Cut No. 2.)—Grand double white variety; should be in every home. Flowers are of enormous size, sepals bright carmine, with large, pure white, double corolla. Each 15c.

TRAILING QUEEN.—(See Cut No. 3.)—Of beautiful trailing habit. A well grown plant is a solid mass of beautiful foliage and flowers. Fine for hanging baskets. Bright, rich scarlet and purple flowers. Each 20c.

JUSSICU.—(See Cut No. 4.)—Blooms of exceptionally large size with superb coloring. The tube and sepals are of bright, glowing crimson, while the corolla is of very rich violet purple, very double and widely extended. A strong, vigorous grower. Each 20c.

GUSTAV NADAUD.—(See Cut No. 5.)—Sepals very brilliant red, corolla double, purple. A giant flowered sort of unusual beauty. Each 20c.

STORM KING.—(See Cut No. 6.)—The standard contrasting variety with red sepals and double, white corolla. The most popular type. Ea. 20c.

BLACK PRINCE.—Of upright, robust growth and generally most satisfactory for the amateur, as it seldom fails to bloom profusely and grow to good form and symmetry. We once had a plant of this variety in our greenhouse that grew a perfect shaped shrub fully 7 ft. high, loaded with fully 2,000 blossoms at one time. Tube and sepals bright carmine, sepals large and broad with pale green tips; large, violet pink corolla. Ea. 15c.

ELM CITY.—Tube and sepals bright coral red; double, purple corolla; blooms all year. A lovely flower. Each 15c.

MONARCH.—By far the largest of the single varieties. Its immense blooms are very dark purple. Each 15c.

SPECIOSA.—Greatly prized for its profuse blooming qualities. Sepals are more elongated than other sorts, and of soft rosy pink color. Ea. 20c.

SUNRAY.—A novelty fuchsia because common varieties are wanting in the variegated foliage which adds so much to the beauty of Sunray. The colors of the sunset, clear yellow, golden bronze, and red, are combined. Flower is pink or deep rose sepals with bright carmine corolla. Each 25c.

RAINBOW FUCHSIA BARGAIN

One Choice plant each of Storm King, Jussicu, Black Prince and Speciosa, giving a wide range of types and colors which will delight every flower lover.

FOUR PLANTS, POSTPAID, FOR ONLY 65c.

GLOXINIA

We know of no bulbous plant that will give such universal satisfaction as the Gloxinia. Their charming trumpet-shaped flowers are exquisitely tinted, blotched or tigered with miniature dots of violet, pink or crimson. They are of the easiest culture in pots and bloom continuously for months. Each 35c.

GENISTA

SHOWER OF GOLD.—A most desirable plant. The drooping branches are covered with delicate sage-green foliage and every twig is tipped with a long raceme of exquisite pea-shaped blossoms of a pure canary color, almost hiding the foliage. Each 15c.

GREVILLEA

SILK OAK.—One of the quickest growing of ornamental house plants. Easy to manage, grows rapidly and is pretty in all stages of its growth. With its long, drooping, silky foliage, it reminds one of a palm or fern. Young growths are light bronze color, tips covered with soft down resembling raw silk. Each 15c.



GREVILLEA OR SILK OAK



GLOXINIA

OUR SPECIAL OFFER ON THIS PAGE IS A GENUINE BARGAIN FOR PLANT LOVERS. YOU SHOULD NOT FAIL TO PROFIT BY IT.

SINGLE GERANIUMS

Geraniums are the most easily grown and satisfactory of all flower plants and only the rose can vie with them in popularity. We have about 200 varieties growing at our place and test a large number of new sorts every year. After careful comparison we have selected the following as the best:

ALICE OF VINCENNES.—A charming novelty which has a border of intense scarlet forming a band around the body color of rosy pink, heavily veined scarlet; center white. Each 15c.

BLACK PRINCE.—A very dark, rich, velvety crimson. The nearest black known in single geraniums. Each 15c.

BIRD'S EGG.—(Abel LeFrance.)—Our magnificent geranium novelty. The flowers are very large, of perfect form. Ground color white, with rosy dots on lower petals. Foliage is slightly zoned. Grows finely. Each 25c.

AUREOLE.—(Mad. Bruant.)—Fancy flowered sort; remarkable colors. The plant is loaded with blooms and each floret is large, white center beautifully veined with carmine lake, radiating into a handsome aureole, each petal being bordered bright pink. Each 20c.

EMILE GOBART.—One of the scarlet sorts of special merit. Dwarf grower and very free flowering. Has beautiful foliage with light shading. Each 20c.

BARIOLEGE.—Dwarf, vigorous growing and free flowering variety. A beautiful composite flower. Color is rose, lower petals blotched crimson, the upper blotched white. Each 25c.

YVETTE PROST.—Fine large flowers and strong trusses. Color violet rose shading to white center. Each 15c.

ELECTRIC GEM.—A fine sort, producing very large flowers on strong trusses. Color is brilliant scarlet. Each 15c.

CURIOSO COLLECTION

Five unique and beautiful geraniums. One each, Curioso, Bird's Egg, Blue Beauty, Caruso, A. Bailiff, described on this and following pages.

FIVE CHOICE KINDS, POST-PAID, ONLY \$1.00.



AUREOLE

BOHEMAS.—An English round-flowered sort of unusual strength and vigor. Handsome and distinct. Flowers have pure white center, shading to a distinct margin of crimson rose. Very large trusses produced freely. Each 15c.

GEN. LEONARD WOOD.—One of the best of the single geraniums. Plant strong and vigorous. Flower bright carmine crimson, with white center. The general effect is very beautiful. Each 15c.

MRS. E. G. HILL.—Distinct and pleasing shade of salmon with light shading at the center. Florets extra large, of splendid habit and vigorous growth. Each 15c, dozen \$1.50.

PHOEBE.—A dwarf, compact growing sort, extremely free flowering, seemingly every joint producing a spike of bloom. Color deep rose. It is its free flowering habit that renders it so popular, although the color is also an attractive feature. Each 15c.

RICHMOND BEAUTY.—A magnificent new single variety. Color crimson scarlet with large white feather in two upper petals. Each 20c.

RADIUM.—Most magnificent, well formed flowers, produced in enormous trusses in the greatest profusion. The color is a brilliant shade of orange scarlet; very effective when massed in beds; foliage large and of fine texture; habit splendid, luxuriant, branching, and robust. Certainly one of the best. Each 15c.



SOUVENIR DE MIRANDE

MAXIME KOVALEVSKI.—A brilliant orange scarlet. A fine plant and probably the best of the single varieties for pot culture. The flowers are round, of splendid form. A novelty of great beauty. Each 20c.

SOUVENIR DE MIRANDE.—Handsome and satisfactory. Nicely formed, round florets; upper petals cream white, with distinct salmon rose border; lower petals salmon rose. Free flowering; splendid blooms. Each 15c.

SNOW QUEEN.—Grandest single pure white geranium in existence. Vigorous and healthy growth; blooms profusely, with immense trusses of blooms. Do not turn pink in sun. Each 15c.

TELEGRAPH.—A splendid flower. Mammoth dark trusses of beautiful deep orange green foliage, chocolate zone; large trusses of beautiful deep orange cerise. The general effect of color is very pleasing. Plant is very desirable in vigor and habit of growth. Each 15c.



BLACK PRINCE

TRICOLOR GERANIUM BED

One dozen each of three shades of color, consisting of standard sorts that will stand the sun and produce continuous bloom all summer. We will send one dozen double white, one dozen double pink and one dozen double red, we to choose the varieties. Planted closely, the pink in the front row, white next, and the red forming the background, you will have a gorgeous bed of flowers.

36 plants as above from 2½-inch pots, \$4.50, postpaid, or \$4.00 by express, not prepaid. The same in larger plants from 4-inch pots, by express, not prepaid, \$9.00.

AUREOLE GERANIUM COLLECTION

A selected list of choice single geraniums. One plant each of Aureole; Mrs. E. G. Hill, salmon; Maxime Kovalevski, brilliant orange; Souvenir de Mirande; Alice of Vincennes, pink; Gen. Leonard Wood, white and crimson; a half dozen different shades, only 85c.

FAVORITE DOUBLE GERANIUM COLLECTION

The Favorite, Beauty Poitevin, Double Dryden, S. A. Nutt, Apple Blossom, Trego and Mrs. F. Perkins.

One each of the above, giving a range of colors in the standard sorts which are universal favorites, for \$1.00 postpaid. This collection from 4-inch pots, large plants, by express, not prepaid, for only \$1.75.



BIRD'S EGG

DOUBLE GERANIUMS

A. BALIFF.—Beautiful composite flower of varying shades. One of the most profuse bloomers and most vigorous growing of newer sorts. See *Curioso* Collection, page 102. Each 25c.

APPLE BLOSSOM.—(Mrs. Lawrence.)—Shining salmon, tinted white. Free flowering; dwarf, compact habit. Extra fine as pot plant. Ea. 20c.

ALPINE BEAUTY.—A most beautiful semi-double variety with pure white flowers. One of the finest in the list, both in habit of growth and freedom in blooming. See illustration below. Each 20c.

BEAUTY POITEVIN.—A great favorite and conceded one of the best semi-double bedding sorts. Color salmon pink, shading to clear salmon in the center. Each 20c.

BLUE BEAUTY.—A new color; a beautiful violet or purplish crimson with a blue sheen over the surface. Three upper petals have a spot of vermillion near the base. See page 102. Each 25c.

BERTHA DE PRESLEY.—A beautiful light pink. Stands the sun without fading. Will be sure to give satisfaction, either for beds or in pots. Each 15c, dozen \$1.50. By express, not prepaid, per 100 \$9.00. Large plants from 4-inch pots, per dozen \$3.00.

CARUSO.—One of the newer varieties that will prove popular. Color bright scarlet, large truss, large florets and vigorous habit. Each 25c.

COL. DARDS.—A peculiar pink color; a bright, attractive shade. A promising new sort for lovers of pink colored flowers. Each 20c.

CURIOSO.—Double "Bird's Egg" geranium. Blooms dotted pink on white, and are striking and beautiful. (See "Curioso" collection of choice new varieties, page 102.) Each 25c.

DAYBREAK.—The finest pink geranium offered by us. Color is bright pink and it blooms more freely than most sorts. Each 15c, dozen \$1.50.

DOUBLE DRYDEN.—Color combination very attractive. Center coral white, shading lilac to edge of petals, which are soft, glowing crimson. Choice as a pot plant. Each 15c.

EL CID.—Choice bedding sort. Flower is double, of fine form and borne on strong trusses. Color is bright scarlet, a rich, dazzling shade. Each 15c; doz. \$1.50. By express, not prepaid, 100 for \$9.00.

GLORY DE FRANCE.—A large round flowered double geranium of waxy appearance. Petals white, veined with carmine rose. Each 15c.

JEAN VIAUD.—Color a bright, rosy pink; distinct white blotch in center. Large, semi-double blooms on strong trusses, above the foliage. Each 15c.



DOUBLE NEW LIFE

DOUBLE NEW LIFE.—The outer petals are a brilliant red. In the center of these appears another semi-double floret, pure white in color, effecting a very charming contrast, difficult to realize unless seen, and having the appearance of being produced artificially. Each 25c.

IMPROVED LA FAVORITE.—What S. A. Nutt is among dark crimsons, La Favorite is among whites; the best double white geranium. It is a strong grower and a profuse bloomer. Each 15c, doz. \$1.50. By express, not prepaid, 100 for \$9.00. From 4-inch pots, doz. \$3.00.

MARVEL.—A bright scarlet; larger than S. A. Nutt, and counted one of the best bright red geraniums. Fine for mass bedding or in mixed beds. Extra large trusses of beautiful shade. Each 20c.

MARQUISE DE CASTELLANE.—Flowers are very large, perfect in form and in large trusses. Color varies from brilliant cerise to bright cherry with brilliant carmine shadings. Each 15c.

MRS. F. PERKINS.—A double pink sort of unusual merit. Sturdy habit, free bloomer, and stands the summer sun without fading. A standard sort and very popular. Each 15c, doz. \$1.50.

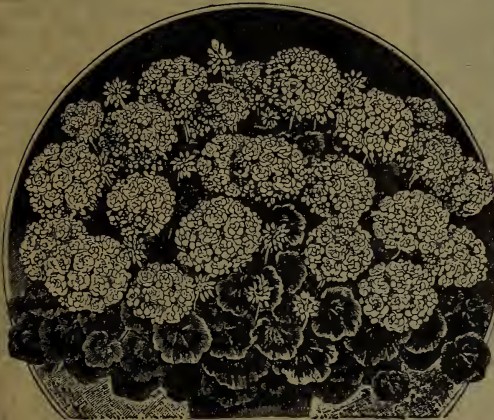
S. A. NUTT.—The best crimson. Takes the lead as a bedding variety, being used in the largest parks and public grounds of the country in preference to all others. Its dense, compact growth, qualities and sun-proof constitution combined give it the prominence as a bedder it has attained. As a pot plant it cannot be excelled. Each 15c, doz. \$1.50. By express, not prepaid, 100 for \$9.00. Large plants from 4-inch pots, dozen \$3.00.

MARQUISE DE CASTELLANE

profuse blooming as a bedder it has attained. As a pot plant it cannot be excelled. Each 15c, doz. \$1.50. By express, not prepaid, 100 for \$9.00. Large plants from 4-inch pots, dozen \$3.00.

SCARLET BEDDER.—Type of S. A. Nutt, but color is brighter and is preferred by some planters. The name indicates its particular value, and we recommend it. Each 15c, doz. \$1.50. By express, not prepaid, 100 for \$9.00.

TREGO.—Strong growing, most free flowering. Robust, compact habit, regular in form. Florets often measure $2\frac{1}{2}$ in. in diameter. semi-double brilliant almost dazzling scarlet color. Each 20c, doz. \$2.



ALPINE BEAUTY



SCARLET BEDDER

GERANIUMS BY THE HUNDRED

Customer to pay express charges.

Fifty or More at the One Hundred Rate.

The customers can select from varieties named in this special offer in such numbers of each as wanted. If you cannot use 50 or 100, perhaps you can get a neighbor to take part of order. Descriptions under name as placed in the list. No other varieties are included in this special offer but the five varieties named here.

S. A. NUTT, crimson double; **SCARLET BEDDER**, LA FAVORITE, white double; **DAY BREAK**, pink double; **MADAM SALLEROL**, for edging.

Just the varieties for outdoor bedding for single or mixed color effects, and in this offer you have the best possible opportunity to fill your beds at reasonable cost.

FROM 2½-INCH POTS, \$9.00 PER HUNDRED.

FROM 4-INCH POTS, \$25.00 PER HUNDRED.

WHAT ARE GENERALLY KNOWN AS LADY WASHINGTON GERANIUMS ARE OFFERED AS PELARGONIUMS ON PAGE 106

FANCY LEAVED GERANIUMS

GRACE PAGE.—A standard bedding variety which is identical with the old standard dark crimson S. A. Nutt geranium except in foliage, which is beautifully variegated. Nothing in geraniums can surpass the beauty of this variety with its large trusses of double crimson flowers against their variegated background. Of vigorous growth and an exceedingly profuse bloomer. Leaves are of dark green, and each bears a border of pure snowy white. Well adapted for pot culture. Each 30c, per dozen \$3.00.

MRS. POLLOCK.—Magnificent. Green leaf disc, overlaid by beautiful bronze red, belted with bright crimson, outwardly margined with golden yellow. Very distinct in its markings, and one of the most satisfactory of fancy geraniums. Each 20c.

WM. LANGGUTH.—This new silver leaved geranium is a beautiful variety. The plant is short, stocky growth, and the beautiful deep green leaves are bordered with a broad, pure snow white band, so that it is handsome even when not in bloom. It is, however, free flowering for a fancy foliage variety, and the flowers are double. Clusters are extra large and a bright red color, showing magnificently against the white foliage. Each 30c.

MAD. SALLEROL.—A very compact variety of silver leaf geranium. Fine for massing or bordering; thrifty; leaves green, edged with white. Has a peculiar manner of growth which renders it of special value for edgings or ribbon work. Each 15c, dozen \$1.50.

CRYSTAL PALACE GEM.—Yellow, with green disc; fine bedder. One of the oldest of the fancy leaved sorts, but popular because of the brightness of the foliage. Each 20c.

MOUNTAIN OF SNOW.—Finest of this class for ribbon lines or massing; center of leaf bright green, margin broadly marked silver white; single scarlet flowers. Each 15c.

DISTINCTION.—Round green leaves with clear black circle. This dark foliaged sort is fine in contrast planting among the silver leaved varieties. Each 25c.



WM. LANGGUTH GERANIUM

SCENTED GERANIUMS

SHRUBLAND PET.—One of the best of the scented sorts. Strong yet pleasant fragrance. Each 15c.

NUTMEG.—Small leaves with nutmeg perfume. Each 15c.

OAK LEAVED.—Beautiful foliage resembling oak leaves, black center with green border. Each 20c.

ROSE SCENTED.—The broad leaf. This is the most popular of scented geraniums. Each 15c.

SKELETON LEAVED.—Leaves are very finely cut, rose fragrance. Each 15c.

BALM.—Delicious balm fragrance. Each 15c.

LEMON.—A nice little plant of bushy growth with delightful lemon fragrance to the leaves. Ea. 15c.

MRS. TAYLOR.—A scarlet flowered rose geranium. The blooms resemble the pelargonium, but are smaller and of bright scarlet color. Blooms constantly. Each 20c.

PEPPER.—Strong fragrance, moderate size leaf, easily grown. Ea. 15c.

PEPPERMINT.—A rare variety with thick "hairy" leaves and refreshing peppermint fragrance. It is most popular. Each 25c.



GRACE PAGE GERANIUM

IVY LEAVED GERANIUMS

CAESAR FRANK.—Double as a Crimson Rambler rose. Specialists claim this to be the best Ivy Geranium. Color soft, rich crimson scarlet, shaded rose at base of petals. Foliage clean, waxy green. Vigorous, quick growing and strong. Finest for baskets, vases, etc. Each 20c.

LEOPARD.—A splendid ivy leaf geranium with white blossom dotted red. It is a typical "Bird's Egg" variety and will be prized because of the beautiful composite flower which will appeal to everyone with its dainty and delicate coloring. Each 25c.

ETINCELENT.—Beautiful scarlet; extra large flowers. Very double and will be satisfactory. Each 20c.

EDEN MARCHI.—Handsome of the ivy leaved sorts. Has enormous sized flowers; color beautiful salmon rose, slightly shaded violet. It is an improvement on the Charles Turner. It is a strong, free grower, producing flowers at almost every joint which are full double and perfect in form. Each 20c.

CHARLES TURNER.—Very double, and is without doubt one of the handsomest ivy geraniums ever introduced; florets two and a half inches across. The color is a deep, bright pink, approaching scarlet in color. Each 25c.

JEAN D'ARC.—Very large and finest white in existence. Perfectly double, white as snow; flowers literally cover the plant when in full bloom. Each 20c.

P. CROZY.—A hybrid between the Zonales and Ivies. Color soft, bright scarlet with veinings of maroon. Each 20c.

CORDEN'S GLORY.—Fine, bright scarlet; large, bold, full flowers; constant bloomers; one of the very best. Each 25c.

ALLIANCE.—A beautiful novelty. A hybrid between an ivy and a zonal geranium. Flowers large, semi-double and produce fine trusses. Exquisite shade of delicate lilac white, upper petals feathered and blotched bright crimson rose. Each 20c.



IVY GERANIUM—EDEN MARCHI. (One-half natural size.)

MANY OF THE MOST POPULAR VARIETIES OF GERANIUMS WILL BE FOUND ON THIS PAGE. EXCELLENT VALUES OFFERED.

HELIOTROPE

These are universal favorites on account of their delightful fragrance. They bloom equally well as bedding plants in summer, or as pot plants in the house during the winter.

BUISSON FLEURI.—Semi-dwarf. Very large trusses of large flowers. Color violet: star-shaped eye. Each 15c.

PRINCE CHARMANT.—Beautiful foliage and large trusses of mauve blue flowers. A novelty of merit. Each 15c.

LORD ROBERTS.—Very large trusses of blue flowers. Each 20c.

FLORENCE NIGHTINGALE.—Very large trusses of dark lavender flowers. Each 15c.

SNOW WREATH.—Superb large clusters deliciously fragrant flowers, nearly white. Each 15c.

HELIOTROPE COLLECTION

The fragrance of these lovely blossoms will perfume the whole house. One each of the five varieties named above for 70c.

JASMINE



NIGHT BLOOMING JASMINE

MAID OF ORLEANS.—A beautiful plant of easy culture, fine grower, good bloomer, very fragrant and of elegant waxy white appearance. Each 25c.

NIGHT BLOOMING.—(Cestrum Parquii.)—World famous variety, producing greenish white flowers incessantly. Strong fragrance after dark. Each 25c.

CAPE JASMINE.—(Gardenia Florida.)—Pretty low growing evergreen shrub. Thick, glossy green leaves, waxy white double flowers of delicious sweetness, valued for winter flowering in house or conservatory. Each 30c.

GRANDIFLORUM.—An old favorite variety and most satisfactory. Valuable for winter blooming. Flowers white, star-shaped. Fragrant. Each 20c.

REVOLUTUM.—A climbing variety with deep yellow single flowers and glossy foliage. A beautiful plant and readily grown. Each 20c.

One each of the five Jasmynes, only \$1.

JERUSALEM CHERRY

An old-fashioned plant grown for its showy, berry-like fruits which remain on plant for a long time. Used generally in window gardening but will grow quite large if given room. Each 15c.

LEMON VERBENA

A universal favorite, for its fragrant leaves. Retain fragrance for years when dried. Very popular with the ladies for storing with handkerchiefs or other apparel to which it imparts in some measure its fragrance. Splendid for hedges and as a plant for the garden or for pots its fine sprays of foliage and delicious fragrance making it desirable for bouquets, etc. Each plant covers a space of 3 to 4 feet in diameter. Each 20c, doz. \$2.00.



A.B.L.A.N.C.



PEACHBLOW HIBISCUS

LANTANA

A most satisfactory plant for outdoor bedding and blooming all winter in the house. Flowers resembles the Verbena, borne on a woody plant.

JAVOI.—The best, largest and freest blooming white variety. Everyone will be pleased with it. Each 15c.

PERFECTION.—The only Lantana having variegated foliage. Is unusually handsome. Outside row of florets are pink with rose center; inside florets very light sulphur yellow, orange center. Blooms freely. Each 15c, doz. \$1.50.

GOLD CUP.—A dwarf, compact grower. Bears very pretty lemon yellow flowers with golden yellow center. Recommended for fine form and masses of bloom. Each 20c.

WEeping.—A beautiful trailing variety; is very desirable for planting in hanging baskets, vases, pots or open ground. Bears an immense profusion of clear pink flowers from early summer until fall. Delights everyone. Each 20c.

RADIATION.—Semi-dwarf. Color brilliant red with orange yellow center. Distinct and beautiful blending of color. Each 15c.

AMIEL.—Semi-dwarf, very compact; fine bloomer; umbel and floret fine size. In color reddish orange, yellow center. Of fine form and a mass of bloom. Each 15c.

VERSICOLOR.—When first open flower is cream yellow with red center. Cream gradually changes to pink, but the flower is fine at all times. Each 15c.

Radiant Lantana Collection.—One each: Radiation, Gold Cup, Javoi, Perfection and Weeping Lantana. One each 75c, postpaid.



NEW
MAMMOTH
FLOWERING
HELIOTROPE

HIBISCUS

GRANDIFLORA.—A large, shrub-like, woody plant bearing immense single red flowers. Each 15c.

PEACHBLOW.—For either pot culture or open ground. Flowers very large, double, clear pink, with deep crimson center. Not always double when first in bloom, but as the plant ages it takes on the double form. Each 25c.

HARDY HYDRANGEAS

(Described as shrubs on page 88.)

ARBORESCENS.—The new Snowball Hydrangea. Each 25c, large plants 75c.

PANICULATA 'GRANDIFLORA.'—The well known hardy sort. Ea. 20c, large 75c.

POT HYDRANGEAS

OTAKSA.—Used for Easter decorations. Enormous trusses of intense pink flowers. Excellent specimen plants for porch or lawn. Blooms entire season. Each 20c, large plants 50c and 75c each.

THOMAS HOGG.—Its immense trusses of flowers are at first slightly tinged with green and change to white. Each 20c.

FRENCH HYDRANGEAS

AVALANCHE.—Splendid large white flowers. Easy to grow; remarkably free flowering. Each 25c.

LA LORRAINE.—At first pale rose, turning to bright pink. Large blooms. A splendid variety. Each 25c.

MME. E. MOILLERE.—White; extra size. Awarded medal at National Flower Show at Boston. Each 20c.

MOUSSELINE.—Light amber pink turning brighter as the flower ages. Of extra size. Each 25c.

E. G. HILL.—One of the finest of pot hydrangeas. Superb. Color white. Each 25c.

Five French Hydrangeas 90c.



WEeping LANTANA



PANSY GERANIUM

PANSY GERANIUM

Beautiful flower belonging to the Pelargonium class. Flowers are of medium size and have white throat. Each petal is shaded toward the center with a rich lavender pink and a dark maroon blotch in the center. Of easiest growth, dwarf in habit, and as it requires little attention it is invaluable as a window plant. Colors and markings most extraordinary. Ea. 25c

PELARGONIUMS

Commonly known as Lady Washington geraniums, and are most beautiful.

EASTER GREETING.—Enormous flowers, bright amaranth red, each petal being marked with large black blotch. Remarkable blooming season. Each 40c.

THE MAID.—A fine sport of Easter Greetings producing reddish carmine flowers with five very regular black blotches, bordered with purplish carmine. Each 40c.

GARDENER'S JOY.—Ground color apple blossom pink, two upper petals blotched carmine brown, the florets are $3\frac{1}{2}$ inches in diameter. Dwarf sturdy nature. Ea. 40c.

GLORY.—Of very large size; ground color, very much like the Cattleya orchid. The upper petals contain two large purple magenta red spots, distinctly veined. Entirely new color. Each 40c.

EASTERN STAR.—Ground color wild rose pink with five large reddish brown blotches, edged scarlet lake. Each 40c.

LADY WASHINGTON COLLECTION

One each of the above fine Pelargoniums, postpaid for \$1.75.

FANTASIA
DOUBLE PETUNIA

pink in this flower, the general effect is a bright, pleasing pink. Each 25c.

PALMS

The most elegant and highly decorative of all plants and the low prices at which they are now offered place them within reach of all. Following are most desirable for ordinary indoor culture.

LATANIA BORBONICA, or Fan Palm.—One of the most popular varieties grown, prized especially for its beautiful large fan-shaped leaves of deep glossy green. The character leaves appear the second year. Each 35c.

KENTIA BALMOREANA.—This is considered one of the hardiest and best in cultivation. A rapid grower. Each 45c.

ARECA LUTESCENS.—A truly graceful and beautiful palm. Strong, upright grower with long, finely cut leaves. Easy to grow and very satisfactory. Each 45c.

KENTIA FOSTERIANA.—A fine variety of the Kentia class. Vigorous and will prosper with ordinary care. Ea. 45c.

PALM COLLECTION

One each of the four above stately palms for \$1.25, postpaid.



LATANIA BORBONICA PALM

PLUMBAGO

CAPENSIS.—No plant in our greenhouse has caused more exclamations of delight than the beautiful, heavenly blue Plumbagos. They are most excellent pot plants, flowering freely at all times. Flowers borne in large clusters. Of very easy culture, growing freely as geraniums. Each 20c.

CAPENSIS ALBA.—The white variety of the above, with which it is identical except color. Each 20c.

ONE EACH, 2 PLUMBAGOS, 35c

PRIMROSE

MEXICAN.—Perpetual bloomer. It has blossoms 2 to 3 inches across, of beautiful colors. Each blossom keeps perfect many days and when it droops others take its place. Each 15c.

OBCONICA.—A lovely perpetual blooming primrose. Flowers are of rose lilac shading white. Each 25c.

CHINESE.—Most popular flower for winter blooming. Our cut gives an idea of its wondrous beauty. Flowers are all shades of color; distinct and beautiful markings. Each 20c.

THE BABY.—(Primula Forbesi.)—Forms a dense rosette of fleshy leaves from which spring flowering stems, 12, 15 and even 20 inches tall, supporting whorls of dainty flowers of a delicate rosy lilac with eye of pale gold; not more than a half inch in diameter, but produced abundantly. Each 20c.

ONE EACH, 4 PRIMROSES, 65c

EASTER
GREETING
PELARGONIUM**PEPEROMIA**

SILVER STRIPED.—A beautiful ornamental basket or pot plant for the home. Grows vigorous and thickly massed. The leaves are wax-like, thick and fleshy, and distinctly variegated white and green. Easily grown and thrive in living rooms. Each 25c.

DOUBLE PETUNIAS

Extremely popular because of striking contrasts in the colors of each flower and because they are, always in bloom. Difficult to grow from seed as only a percentage are double.

SNOW QUEEN.—Elegance and purity are strongly conveyed by this lovely flower. Ea. 25c.

CLIO.—A splendid shade of purple. Flowers extra size, of nearly solid color and extremely striking appearance. Each 25c.

FANTASIA.—Handsome double white and purple petunia. Striking variegation. It is really beautiful. Each 25c.

PINK BEAUTY.—Although many shades of



CHINESE PRIMROSE

WE WILL MAIL A COLLECTION OF THE FOUR DOUBLE PETUNIAS AS LISTED ABOVE FOREIGHTY CENTS, POSTPAID.

MARGUERITE DAISY

WHITE.—A French improvement on the old White Marguerite which has for years been so popular. Is much larger and will produce ten times as many flowers. Each 15c. dozen \$1.50.

BLUE.—(Agatha.)—A strikingly beautiful flowering plant, producing abundance of clear, sky-blue flowers. Plants are fairly loaded with flowers, which are very desirable for cutting. Each 15c.

MRS. F. SANDER.—A superb new variety of double white Marguerite, so lovely as to be a firm favorite wherever known. Owing to continuous, free blooming habit and beautiful lasting blooms on long stems, is peculiarly adapted for beds or for use as cut flowers. Ea. 20c.

SOLIEL D'OR.—A very popular sort with flowers of a very pretty canary yellow color. It blooms freely and continuously. Each 15c.

OLEANDER

These old-fashioned shrubs are becoming more popular again. No plant makes more handsome specimens in tubs for verandas or in the yard. Flowers are usually double when mature.

ROSEA.—Large pink flowers, borne profusely. Popular. Each 25c.

LILLIAN HENDERSON.—Flower pure white; fine, sturdy plant. A very popular variety. Each 25c.

LUTEA.—The comparatively rare yellow flowered variety. Each 25c.

One plant each of the three colors, 65c.



INTERNATIONAL MIXED PANSIES

PANSY PLANTS

Pansy plants are quite a specialty with us and we sell immense numbers of them every year. Our plants are grown from the very best quality of seed and are strong and vigorous and have beautiful, large, velvety flowers of all shades and colors known in pansies. Extra large, strong plants of **American Giant** and **Giant Trimardeau Mixed** at 75c per doz., 4 doz. for \$2.40, postpaid.

PONDEROSA LEMON

Nothing has ever caused half the commotion that this wonderful lemon has. It is a true ever-bearing variety. On a plant six feet high no less than 89 ponderous lemons were growing at one time. It was a beautiful sight. The tree was blooming and at the same time had fruit in all stages of development, from the size of a pea to the ripe fruit, showing it to be a true everbearer. Blossoms waxy white and as fragrant as orange blossoms. Fruit has been taken from the tree weighing over 4 lbs. The lemons have very thin rind for such large fruit. It is juiciest of all lemons, makes delicious lemonade, and for culinary purposes unexcelled. It is not uncommon to make 12 pies from one lemon. It fruits when quite small and makes a lovely house plant. It fruits freely second year. Strong plants each 25c, postpaid. Two-year old plants \$1.00 each.

My Lemon Tree that I got of you had one lemon on it that measured 19 inches one way and 11 the other. It was a picture, everyone praising it. —Mrs. Charles Ebel Madison, Minn.



PONDEROSA LEMON

OTAHEITE ORANGE

An extra fine plant, with glossy green leaves, the true fragrant orange bloom, and abundant little bright oranges that will hang on the little bush like balls of gold for six months after they are ripe. With good culture they are never out of fruit from one year's end to another, and at least 2-3 of the time are in flower also. In beauty, grace and fragrance there is nothing like its delicate, leafy sprays of bloom. Each 25c, large size, \$1.00.

SURINAM CHERRY

A very ornamental plant at all times, as both flowers and fruits are attractive in color shades. Fruits are cherry red color and are useful and desirable for culinary purposes. Growth of plant is shrub, like orange and lemon listed on this page, and readily grown in pots. Each 25c.



OTAHEITE ORANGE

STRAWBERRY GUAVA

A useful and ornamental pot plant; wonderfully productive and will prove equally popular with the Lemon and Orange above. Has dark, shining green foliage, with fruits of striking claret shade, about size of hulled walnut. Fruit is used for dessert and makes a most attractive jelly. It will have buds, blossom and fruit in various stages of development on the plant at one time. Each 25c.

Tropical Fruit Collection

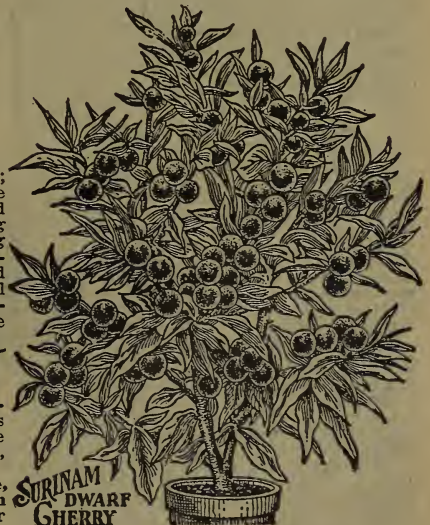
Everyone is interested in the manner of growth of the tropical plants and we offer above some of these which are suited for house culture, believing they will be popular.

Ponderosa Lemon, Otaheite Orange, Strawberry Guava and Surinam Cherry. One strong plant of each for

ONLY 85 CENTS POSTPAID



STRAWBERRY GUAVA



SURINAM DWARF CHERRY

OUR TROPICAL FRUIT COLLECTION IS AN UNUSUAL OFFER AND WILL PLEASE THOSE WHO WANT SOMETHING DIFFERENT

EVERBLOOMING ROSES



RADIANCE

LA FRANCE ROSES

La France roses are certainly the nearest perfection in flowers. Distinctive characteristics are the true La France fragrance and beautiful form. Prized for profuse bloom.

RED LA FRANCE.—Very free flowering. Deep rose pink hue. Very large, double and of superb form. Each 25c.

LA FRANCE.—Beautiful form in bud and full bloom; very large, full and globular; a constant bloomer; in color pink, silvery rose. Ea. 25c.

WHITE LA FRANCE.—Identical with La France, except color. It is pearly white, sometimes tinted fawn. Each 25c.

STRIPED LA FRANCE.—is a rich creamy pink with silvery gloss, beautifully streaked and etched with carmine. Each 25c.

FOUR LA FRANCE ROSES \$5c.

COCHET ROSES

The Cochet roses are exploited by many specialists as the best roses for outdoor planting. They are everblooming and distinctly beautiful, and we offer you the choicest varieties of this popular type.

MAMAN COCHET.—Buds large and pointed, while the open flowers are extra large, double and bloom all the time. Color is a rich, clear pink, changing to rose. Each 25c.

RED COCHET.—Buds long and pointed; flowers full and perfectly double; color rich, rosy crimson, bright and glowing. Each 20c.

WHITE COCHET.—An exact counterpart of the beautiful Maman Cochet except that it is of purest white. Very desirable. Each 20c.

YELLOW COCHET.—Deep sulphur yellow. True Cochet type; most desirable of yellow roses for outdoor planting. Each 20c.

FOUR COCHET ROSES FOR 75c.

We consider these not only the most popular, but also the most satisfactory of all flowers, and therefore we make roses a leading specialty and are now devoting to them more space in our greenhouses and more land in our fields than ever before. Our plants of the several varieties are mostly grown on their own roots and are strong healthy and vigorous. We have taken great pains in preparing this list, which represents the choicest selections from nearly a thousand varieties, and we are sure every one will prove satisfactory. Roses sent by mail or express prepaid in perfect condition, to the most distant parts of the United States, and we guarantee safe arrival. Directions for culture sent with every package.

BESSIE BROWN.—Blossoms are very large in size, full double and of perfect shape; color creamy white flushed and tinged with pink. Blossoms freely. Each 25c.

CHAMPION OF THE WORLD.—The champion bloomer. It is claimed that one plant will produce more flowers during the year than ten plants of any tea rose. The color is a deep, rich, rosy pink, a most beautiful color, equalled by but few varieties; really one of the best roses. Each 20c.

ETOILE DE FRANCE.—Clear red or crimson velvet shade. It is without doubt the finest hybrid tea rose in our long list of varieties. Each 20c.

FRANCISKA KRUGER.—A strikingly beautiful rose of deep coppery yellow; quite unique, and distinct from all others. Of large size and very symmetrical. Each 20c.

GOLDEN GATE.—A beautiful free blooming and healthy flower; has long stems and continuous bloom. Flowers creamy white, delicately tinged with golden yellow and bright rose color. Each 20c.

GOLDEN BEDDER.—The finest golden yellow tea rose. A strong, vigorous and healthy plant and a profuse bloomer. By some it is called Star of Lyons. Each 20c.

GRUS AN TEPLITZ.—One of the brightest colored roses known. When first opened it is dark, rich crimson, quickly changing to a bright scarlet. Blossoms continually. Each 20c.

KAISERIN.—Decidedly the finest white ever-blooming hardy garden rose. Soft, pearly white, lightly tinted with lemon at center. Free, continuous bloomer. Buds of faultless shape, developing into large, very double flowers of exquisite fragrance. A general favorite with rose growers. Each 20c.

KILLARNEY.—The buds are especially long and the color of the rose is a peculiarly bright, living pink, more beautiful than any other pink rose. A free bloomer, easily grown, of strong healthy constitution. Each 20c.

MILADY.—A rich crimson rose, by florists now given preference to Richmond, which has long held first place as a popular cut rose. A most lovely flower. Ea. 20c.

RADIANCE.—A brilliant rosy carmine flower which is fine in form, large and full, with cupped petals. Free in growth and a profuse bloomer. Each 20c.

RICHMOND.—A strong rival of the American Beauty. It is a beautiful scarlet crimson, as free blooming as any tea rose, and flowers are exceedingly fragrant. A standard variety because of its merit. Each 20c.

RHEA REID.—A magnificent rose described by an enthusiastic rose lover as being "as large as American Beauty, as double as La France and as red as Richmond." Color is vivid scarlet-crimson, and the flowers are marvels of beauty, large, bold and splendid substance. Very hardy and of thrifty growth. Each 30c.

SUNBURST.—A splendid large rose, ranking with American Beauty and Killarney in size and form. Color a beautiful coppery yellow, shaded lighter; a brilliant flower. Each 30c.

WHITE KILLARNEY.—Exactly like Killarney, except in color. It is one of the best garden roses, hardy in this climate with slight protection. The color is pure, snowy white; blossoms are large and buds long and pointed. Each 20c.



BEAUTIFUL HARDY ROSES

The most satisfactory of all flowering plants, making a permanent improvement which is constantly growing in value. The roses below named are growing plants in from 2 to 2½-inch pots. The 2-year-old plants, both pot grown and dormant, have reached such excessive costs that we do not think they are worth the difference to the planter. We hope another season to be able to supply large plants at reasonable price. We do not care to offer seconds. It will pay you better to get first class small plants than to use No. 2 stock of 2-year-olds. Following are the most satisfactory varieties. Remember, we prepay postage or express charges on plants at prices named.

AMERICAN BEAUTY.—One of the best and most valuable roses, both for garden and house culture. Color rosy crimson, exquisitely shaded and very handsome. Extra large, full flowers, fine buds. A good bloomer. See our American Beauty Collection. Each 25c.

BARON DE BONSTETTEN.—Rich, dark red, passing to a deep, velvety maroon, nearly black. A large flower, very highly scented. Each 25c.

CAPTAIN CHRISTY.—Is very double; fresh, delicate pink. A splendid sort offered as part of our Favorite Collection. Each 25c.

CLIO.—Color flesh pink, shaded rose in center. Large flower of fine form. We think so highly of it we include it in the Favorite Collection. Each 20c.

COQUETTE DES ALPS.—Flowers are large and full, finely formed and pure white. Profuse bloomer. Each 25c.

FRAU KARL DRUSCHKI.—Beautiful white variety often called White American Beauty, because its habit and growth resemble that popular sort. Offered in Iron Clad Collection. Each, 30c.

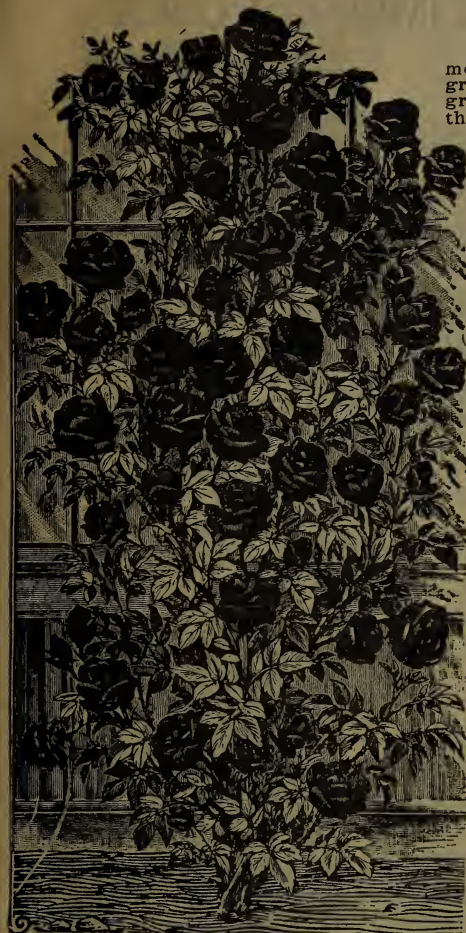
GLORIE DE MARGOTTIN.—Flowers very large, symmetrical, very full and deliciously sweet scented. Color is clear dazzling red. One of the most brilliant roses. Free bloomer; vigorous grower. Each 20c.

GENERAL JACQUEMINOT.—One of the grandest of roses; nothing can surpass them in beauty. Color a rich, dazzling scarlet, shaded with deep, velvety crimson; a superb, glowing color. Each 25c.

J. B. CLARKE.—Awarded gold medal of National Rose Society. A hybrid perpetual of unique color, being an intense scarlet shaded with deep, velvety crimson-maroon. Flowers very large and fine. A strong vigorous grower. One of our Iron Clad Collection. Each 20c.

JOHN HOPPER.—Flowers are large, regular and full; color brilliant rose, shaded a rich crimson. Blooms are scented very sweetly. Each 25c.

JUBILEE.—A grand, hardy, perpetual blooming variety. In color dark crimson, shaded velvety maroon; flowers sometimes 6 in. in diameter. Each 25c.



GEN. JACQUEMINOT



ULRICH BRUNNER



AMERICAN BEAUTY ROSE.

MRS. JOHN LAING.—For outdoor planting is undoubtedly the finest. A beautiful soft pink; delicious fragrance; very double and of large size. A constant bloomer. See Iron Clad Collection. Each 25c.

MADAME PLANTIER.—Flowers borne in great profusion; are pure white; hardy as an oak, and certain to grow. Blooms in June. Each 20c.

PAUL NEYRON.—Double flowers of shining carmine pink. Largest rose known, and one of the most prolific. An exceptional grower, making shoots 4 to 5 feet high. Offered in our Iron Clad Collection. Each 25c.

TRIUMPH.—Superb new variety from England, where it is sometimes known as "Hugh Dickson." Color crimson flamed scarlet. Blossom extra large, highly perfumed. Each 25c.

ULRICH BRUNNER.—A rich, glowing crimson scarlet; flowers of exquisite shape. The deep red in our Iron Clad Collection. Each 25c.

VICK'S CAPRICE.—Perfectly hardy. Flowers large, soft, satiny pink, distinctively striped and dashed with white and carmine. Each 25c.

GIANT IRON CLAD ROSE COLLECTION

PAUL NEYRON.—Beautiful shade of deep pink.

FRAU KARL DRUSCHKI.—One of the very largest blooms among white roses.

ULRICH BRUNNER.—Glowing scarlet. Form and size equal to the best.

THE IRON CLAD ROSE COLLECTION INCLUDES FIVE OF THE BEST HARDY VARIETIES. PRICE POSTPAID \$1.00.

AMERICAN BEAUTY ROSE COLLECTION

Who has not heard of the American Beauty, the rose famed in poetry, story and song? The cut flowers are frequently sold during the winter at \$10 to \$25 per dozen. What flower lover has not hoped some day to have a "garden of roses" with American Beauties galore? This collection has proven very popular and has given satisfaction to planters everywhere.

AMERICAN BEAUTY, WHITE AMERICAN BEAUTY, BLACK BEAUTY, STRIPED BEAUTY, PINK BEAUTY AND MOSS BEAUTY. By mail, prepaid.

SPECIAL PRICES: One each of the above for \$1.50.

GOOD ROSES ARE EXTREMELY SCARCE THIS YEAR AND WE HAVE CONFINED OUR LIST TO THE CHOICEST SORTS ONLY

HARDY CLIMBING ROSES

For porches and trellises nothing surpasses the climbing roses, especially the ever-blooming varieties. Following are recommended as permanent plants.

CLIMBING AMERICAN BEAUTY.

—Real American Beauty in flower, foliage and fragrance, but grows as a climber, often making 15 feet in a single season. Flowers are very large from 3 to 4 in. in diameter, of fine form and are borne in great profusion. A continuous bloomer, and hardy. Each 30c.

THOUSAND BEAUTIES.—(Tausendschon.)—Blossoms from the beginning of June until the last of July. Color soft pink when first open, changing to carmine on reverse of petals. Blossoms produced in clusters and show different shades at same time, deep pink, grading to light shell pink. It is this feature that gave the rose its name of "Thousand Beauties." Not so thorny as most sorts. Each 25c.

MARY WASHINGTON.—Hardy, perpetual blooming climber, producing double snow white blossoms from June until frost. In this lovely rose our first president took special delight and named it after his mother. Each 30c.

SEVEN SISTERS.—One of the old standard climbing roses. Crimson, changing all shades to white. Blossoms in clusters. Each 25c.

PRAIRIE QUEEN.—An old standard always popular. Grows successfully everywhere and under any conditions. Bright pink, full and double; a large flower. Each 25c.

BALTIMORE BELLE.—Double blush white; large clusters covering plant with bloom. An old time favorite still popular because of its hardiness and general excellence. Each 25c.

RAMBLER ROSES

BLUE RAMBLER.—(Veilchenblau.)—The wonderful new rose which resembles the well-known Crimson Rambler in its climbing habit and manner of growth, having glossy green foliage and bearing large clusters of medium sized flowers.

When first opened its color is an attractive shade of violet crimson, later changing to a more distinctive and the unique shade of violet-blue. Is markedly distinct in color from any other rose. Strong plants each 20c; large two-year-old 60c.

EXCELSA RAMBLER.—A greatly improved Crimson Rambler. It begins blooming two weeks earlier and its color is brighter, more intense crimson; almost entirely free from mildew. Each 20c; two-year-old plants each 60c.

CRIMSON RAMBLER.—The most popular rose in existence, as it is always satisfactory. Many instances reported of 3,000 to as high as 19,721 flowers by actual count on one bush. Exceedingly hardy. Flowers are produced in large trusses of pyramidal form and of brightest crimson color. Blossoms remain on the plant for a great length of time without losing their brightness. Each 20c strong two-year-old plants 60c.

YELLOW RAMBLER.—A grand new variety like above except that it is golden yellow. One of the most satisfactory varieties. Each 20c; dormant plants 60c.

DOROTHY PERKINS.—A grand new sort remarkably like Crimson Rambler, but flowers more double and beautiful shell pink color. Each 20c; dormant 60c.

WHITE DOROTHY PERKINS.—Like the parent variety with pure white flowers. The Dorothy Perkins type is preferred by most rose growers to the ordinary Rambler sorts. Each 20c; two-year-old 60c.



BALTIMORE BELLE

RAINBOW RAMBLER COLLECTION

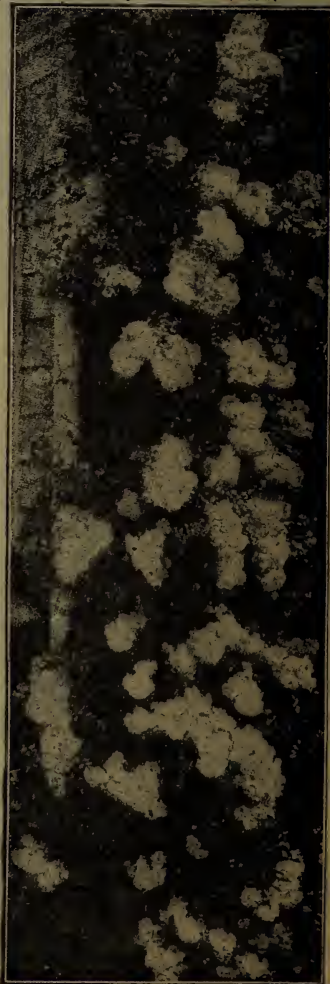
One each of Blue Rambler, Crimson Rambler, Yellow Rambler, Dorothy Perkins, White Perkins, for 80c, two-year-old plants only \$2.50, postpaid to your address.

COPYRIGHT 1925 BY A. BLANG
CRIMSON RAMBLER

SEVEN SISTERS

CLIMBING ROSE COLLECTION

One each of Thousand Beauties, Climbing American Beauty, Seven Sisters, Baltimore Belle, Mary Washington and Prairie Queen for \$1.00.



DOROTHY PERKINS

NOTE PARTICULARLY THAT THERE ARE TWO BARGAIN COLLECTIONS OF OUR CHOICE ROSES OFFERED ON THIS PAGE

SUMMER CLIMBING ROSES

CLIMBING MALMAISON.—There is no finer pink than the old, well-known Malmaison, or "Souvenir" of the South, and we are sure that our patrons, one and all, will be glad to hear that we have a climbing variety that is identical with the parent. This variety will prove of inestimable value to all lovers of fine climbing roses. Each 20c.

MRS. ROBERT PEARY.—Ever-blooming and while not classed as a hardy variety will live over winter with slight protection. Flowers extra large, full, deep and double. Buds long pointed. Color pure ivory white, of delicious fragrance. Grows 10 to 15 feet in a single season. Each 25c.

MARECHAL NEIL.—Grand old French variety, ever beautiful and of surpassing fragrance. Hardy in the south but will not stand severe winters, and must be taken in and kept dormant during the winter, or may be kept in the house or conservatory. winter bloomer. Each 20c.



Baby Rambler Roses

This type of roses has created a furore among rose planters in America and we list below four varieties in collection that our customers may have contrast of color necessary for best effects. Hardy. They are very fine for permanent beds and are well adapted for decorative landscape effects.

CRIMSON BABY RAMBLER.—A cross of the Crimson Rambler and a Polyanthus variety. The bush is vigorous, absolutely hardy, about 12 inches in height, and on our place every plant was in bloom every day of the summer and fall. 120 flowers have been counted on a single panicle. Each 30c.

BABY TAUSENDSCHON.—Dwarf form of the "Thousand Beauties" rose. Like the climbing variety, it shows many shades of color, from carmine to shell pink, in the clusters at the same time. It produces blooms in wonderful profusion and a few plants will give the effect of many varieties in a single bed. Each 30c.

WHITE BABY RAMBLER.—(Catherine Zeimet.)—The true Baby Rambler type, with pure white flowers. Deliciously fragrant and perfectly hardy. Each 25c.

PINK BABY RAMBLER.—(Phyllis.)—A counterpart of the Crimson Baby Rambler except that color is a bright, shining pink. Splendid in combination with the above. Each 25c.

ONE EACH OF THE ABOVE FOUR BABY RAMBLERS \$1.00.

Fairy Roses

These small roses are marvels of grace and beauty; the blooms are borne in clusters.

YELLOW SOUPERT.—(Mosella.)—A choice novelty. The flowers are double; tinted white on a beautiful yellow ground. Each 25c.

LITTLE WHITE PET.—A pure white of perfect shape. Each 15c, two-year-old 30c.

CLOTHILDE SOUPERT.—One of the most popular and satisfactory roses grown. Wonderfully free bloomer. White, shaded pink. Ea. 25c. Two-year plants each 50c.

CECIL BRUNNER.—Is similar to Clothilde Soupert, except it is salmon rose on yellow ground color. Like all others of this class it is extremely free flowering. Each 25c. Two-year 50c.

THE FOUR FAIRIES 75c.



RUGOSA ROSES

Rugosa Roses

SIR THOMAS LIPTON.—A hardy hybrid rugosa rose. Grows 4 feet high, strong and vigorous. Flowers double, pure white. Fine for hedging, cemeteries or massing. Each 25c.

CONRAD F. MEYER.—Elegantly formed buds and flowers $3\frac{1}{2}$ to 4 inches across and perfectly double. Color rich, peachy yellow, tinged silver rose; very fragrant, and entirely hardy. Each 30c.

RED RUGOSA.—A single-flowered rose. Makes a handsome large bush; bright green leaves; clusters of deep rose colored flowers continuously, followed by large, apple-shaped, bright red fruits. Strong plants 25c.

WHITE RUGOSA.—Similar to the above; white flowers. Each 25c.

ONE EACH FOUR RUGOSA ROSES POSTPAID, ONLY \$1.00.



CRESTED MOSS

Memorial Roses

These hardy little roses creep over the ground like ivy. The leaves are a glossy dark green color.

WHITE MEMORIAL.—(Wichuriana.)—Fine for cemetery planting. Flowers are single and pure white; hardy. Each 25c.

MANDA'S TRIUMPH.—Is a rapid, sturdy grower; bears a profusion of double, pure white, imbricated flowers; elegant for cemetery planting. Each 25c.

Moss Roses

Acknowledged queen of all roses; moss-covered stems and buds show off delicate loveliness of blossoms, hardy but needs protection.

CRESTED MOSS.—Deep pink buds surrounded by mossy fringe; very fine. Each 30c.

CRIMSON GLOBE.—Large flower; deep, rich crimson; very mossy; fragrant. One of the best. Each 25c.

WHITE MOSS.—Everyone should have one of these lovely plants. Each 25c.

One each of Moss Roses for 70c.



LITTLE WHITE PET



RUBBER TREE

STROBILANTHE

ROYAL PURPLE.—An excellent bedding plant and a beautiful foliage plant for pot culture. Forms a compact bush 18 inches high, with leaves 5 to 9 in. long, of beautiful metallic purple, shading into light rose; flowers violet blue, borne in immense racemes. Each 25c.

SANSEVERIA

ZELANICA.—There is scarcely a decorative plant listed that is more striking in appearance, and certainly none other that will stand as much downright neglect. It will grow in a dark, cool room or stand on the mantle in a heated sitting room. Will stand gas or dust and requires little water yet remains thrifty as ever. Singularly beautiful, as well as easily grown. Erect, rigid, sword-like leaves, which are thick and leathery, dark green color, beautifully striped crosswise with white. Each 25c, large plants 50c.

SWAINSONIA

WHITE.—Beautiful new climbing plant. The habit of growth is extremely graceful, and a plant trained up at the side of a window or on a trellis presents a lovely sight of light green, feathery foliage, and a splendid profusion of pure white sprays of flowers resembling Sweet Peas in form. Easily grown. Each 20c.

PINK.—A beautiful new sort, similar to above except that the flowers are a clear pink. Each 20c.

THUNBERGIA

ERECTA.—An interesting shrub, which gives best of satisfaction in the window garden, sun parlor or conservatory. It is hard wooded, erect and branching with small, dark shiny leaves and an almost ceaseless show of large, gloxinia-like flowers. The long tubes are creamy white, the open mouthed bells a rich violet-purple which ends abruptly at the golden throat. Each 35 cents.

RUBBER TREE

(Ficus elastica.)—This is the true rubber tree from which is secured the rubber of commerce. Grows slowly in temperate climate, and under artificial conditions, and is adapted for house or conservatory. Highly valued everywhere for their tropical appearance. Leaves very large, thick and leathery and of a beautiful shining green color. It endures the dry air of living rooms remarkably well. Everybody likes it. They are difficult to propagate and will remain high in price. Each \$1.00, postpaid. Larger sizes \$2.00, by express, not prepaid.



STROBILANTHE



AMERICA SALVIA

SALVIA

AMERICA.—The salvias are among the most brilliant and showy bedding plants. This variety is semi-dwarf, growing about 2 ft. high with long spikes of dazzling crimson flowers. Each 20c, dozen \$2.00. Large size, 4-in. pots, each 25c, doz. \$2.50.

IMPROVED SPLENDENS.—Large, tall and fine, bright crimson flower and dark, rich green foliage. Each 15c, doz. \$1.50.

SNOWSTORM.—A white flowered, tall growing sort. A few among a bed of scarlet salvias are unique. Each 20c, doz. \$2.00.



SANSEVERIA

PURPLE PRINCE.—A beautiful purple shade of this popular flower. Fine for mixed bed. Each 20c, dozen \$2.00.

ALFRED RAG-ANEAU.—An improved splendens type somewhat more dwarf in growth, surpassing the old type in vigor and beauty. Each 15c, doz. \$1.50.

ST. LOUIS.—Foliage green, with white spots. Blooms bright scarlet, very large. Attractive. Each 15c, dozen \$1.50.

KING ALBERT.—A new shade in Salvias. A bright pleasing pink. Habit and growth equal to any of the others. Each 20c.

One each, seven Salvias, Postpaid \$1.

VERBENAS

Everybody likes Verbenas, as there is no one can help enjoying the sight of a nice bed covered with dark green leaves and brilliant blossoms. We have finest of colors. We can furnish separate colors such as red, pink, white, blue, purple, striped, etc., or nicely assorted, just as you prefer, at 10c each, \$1.00 per dozen.

BANNER VERBENA PLANT COLLECTION

For those who do not wish to grow from seed, we offer a collection of plants which will fill a bed five by eight feet and we offer you as special

Six plants Defiance Giant Red Verbenas, red... 50c

Six plants Mammoth Snow White Verbena, white... 50c

Six plants Superb Large Blue Verbena, blue... 50c

A dozen and a Half Choice Plants in Banner Colors, Postpaid, for Only \$1.00.



MAMMOTH VERBENAS



WHITE SWAINSONIA

EVERY YEAR BRINGS US HUNDREDS OF KIND LETTERS FROM OUR PLANT CUSTOMERS. OUR PLANTS PLEASE THEM

VINES AND BASKET PLANTS

(Listed separately for those who desire them for special uses.)

CLERODENDRON

BALFOURII.—Unique and beautiful. It presents a splendid combination of colors, having bright scarlet flowers with creamy white calyx; a profuse bloomer, young plants a foot high bearing several clusters. A strong and rapid grower. Each 20c.

CRIMSON CREEPER

HEERIA ROSEA.—A pot plant highly ornamental all the time. Long, slender and exceedingly graceful vines, red stemmed, with dark, rich green foliage; and are exceedingly pretty as they hang in wavy tresses over the side of a hanging pot or basket. It blossoms during the late winter, spring and early summer; flowers are large and of a peculiar shade of bright crimson, and borne in great profusion. Each 15c.

IVIES

ENGLISH.—Old favorite, showy the year round. Hardy in South, but will not stand our Iowa winters. Each 15c, large plants 25c.

VARIEGATED ENGLISH.—Foliage is prettily marked pure white on dark green ground. A handsome pot plant or for trailing from sides of boxes or baskets. Each 15c.

KENILWORTH.—Old familiar trailing ivy. Perhaps the best for shaded places or rooms where light is not very strong. Each 15c, dozen \$1.50.

PARLOR.—Well known; popular as a plant for hanging baskets and vases. Grown with very little trouble. Each 15c, dozen \$1.50.

ONE PLANT EACH OF THE FOUR IVIES ABOVE NAMED FOR ONLY 50c.

PASSION FLOWER

MAMMOTH.—Flowers 2 to 4 inches in diameter, and the colors a remarkable combination of red, white and blue flowers. Each 20c.

CONSTANCE ELLIOTT.—A white-flowered mammoth variety. Each 25c.

VINCA MAJOR

ELEGANTISSIMA.—The handsomest vine to grow in window boxes, hanging baskets, trailing from pots, rockeries, etc. The long, trailing stems of glossy green leaves are broadly margined and variegated with white. Of easiest culture and does well either in sun or in shade. Blue flowers. Each 20c, dozen \$2.00. Large size plants each 35c.

HARRISONI.—Similar to above but with darker variegation. Very popular because of its strong growth. A well grown plant will completely fill a large hanging basket. Each 20c, dozen \$1.25. Large size plants each 25c.

WANDERING JEW (Tradescantia)

An old, well known trailing plant nice for growing in hanging baskets, vases, pots or window boxes. Two sorts with variegated foliage, and also the plain green leaf variety. Each 15c, 3 for 40c.

HANGING BASKET COLLECTION

This illustration of our popular collection but poorly depicts the beauty of a hanging basket filled with appropriate plants, well grown and healthy. We have in this collection chosen a half dozen plants which will give splendid results with little care and may be grown in any home window garden. Surely an opportunity at the price.

BOSTON FERN.—The most popular decorative plant in the entire list. Each 20c.

REX BEGONIA.—Most beautiful foliage plant, a source of much satisfaction Ea. 50c.

WEeping LANTANA.—Trailing variety of Flowering Lantana. Each 20c.

VARIEGATED VINCA.—The most popular vining basket plant on the list. A favorite with all. Each 20c.

TRAILING ABUTILON.—Adding much to the collection with its beautiful flowers and foliage. Each 20c.

WANDERING JEW.—The old-fashioned favorite basket plant. Each 15c.

Above postpaid, \$1.25. Or the six plants and one 8-inch wire hanging basket and moss for lining, all postpaid, for \$2.00.



MANETTA

BICOLOR.—One of the handsomest little vines in existence. Easily and quickly grown; blooms continuously. Well adapted for hanging baskets, pot culture, vases or beds. Flower of size and shape shown in our cut, brilliant scarlet, tipped with clear golden yellow, making it most wonderfully attractive. Manetta Bicolor blooms constantly and profusely in winter when taken into the house. We heartily recommend this vine to all customers. Each 25c.

MOONFLOWER

WHITE.—Very handsome climber, growing to a height of 25 to 40 feet, and covered nightly and on dull days with its white, moon-like flowers. Each 20c, dozen \$2.00.

BLUE.—(Ipomea Leardi.)—The flowers are a clear, satiny blue, with well defined crimson bars, very distinct. Each 20c, dozen \$2.00.

1 WHITE AND 1 BLUE MOONFLOWER 35c.



HANGING BASKET COLLECTION.

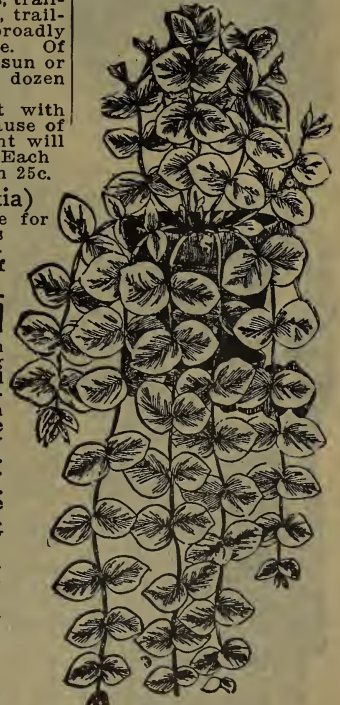


SAXAFRAGA

STRAWBERRY GERANIUM.—Well known, much used old plant for hanging baskets or vases. Long, strawberry-like runners. Will grow vigorously and give satisfaction under hardest conditions. Each 20c.

SMILAX

A well known and handsome climber. Most popular of all vines with florists. Grows compact and upright, does not require much space. Can be trained on strings. Each 15c.



VINCA ELEGANTISSIMA

IF YOU WANT TO PURCHASE A HANGING BASKET FILLED WITH ANY PARTICULAR PLANTS, WRITE FOR PRICE COMPLETE.

BULBS

For Summer Blooming

AMARYLLIS

JOHNSONII.—Of strong, vigorous growth, bearing from 3 to 6 brilliant red flowers on each stem. The petals are striped with white; very attractive; fragrant. Each 50c.

FORMOSISSIMA.—(Jacobean Lily.)—Is of extremely rich, deep velvety crimson. Free bloomer and succeeds well in pots or open ground. Each 20c, 3 for 50c; dozen \$1.75.

ATAMASCO.—A fine little bulb for summer blooming; bears pink flowers. Plant closely. Each 15c;

CALADIUM

ESCULENTUM.—(Elephant's Ear.)—A splendid tropical plant, growing 4 to 5 feet, with immense leaves, beautifully veined and variegated with different shades of green, often growing 3 feet long. Of easy culture. Medium sized bulbs 25c, 3 for 65c; large bulbs 40c, 3 for \$1.00; mammoth 65c, 3 for \$1.50.

FANCY-LEAVED.—Popular for conservatory, greenhouse and window boxes, but nearly all varieties succeed admirably planted out of doors, when the ground has become warm, in partly shaded, sheltered borders. Leaves variegated red, yellow, white, brown, green, etc. Many choice varieties, each 40c; dozen \$4.00.

GLORIOUS CANNAS

These are now generally considered the most showy and effective bedding plants. They have tropical appearing foliage and showy flowers, some of which are truly orchid-like.

A. CROZY.—Height 4 feet. Green foliage. Crimson scarlet, with broad gold border. One of the most striking among the long list of cannas. See illustration. Each 20c; dozen \$2.00.

BRANDYWINE.—Height 4 ft. Handsome bronze variety. Leaves show tinting of green in such a way they appear striped. Flowers large, wine red, dappled crimson. Each 20c, doz. \$2.00.

BUTTERCUP.—A medium growing variety with green foliage and bright yellow flower. Very attractive and fine in contrast planting. Each 20c; doz. \$2.00.

CALIFORNIA.—Rare and handsome; color a pure rich orange gold, good habit of growth, large flowers, erect head and blooms freely; green foliage. Height 3 feet. Ea. 20c; doz. \$2.00.

CHARLES HENDERSON.—Four feet high. Green foliage; one of the finest bedding plants in existence; compact, vigorous growth; free bloomer; deep, rich crimson. Each 15c, doz. \$1.50.

FLORENCE VAUGHAN.—It is 5 feet high. Dark green foliage; yellow flowers, spotted with bright red. Is fine for bedding. See illustration above. Each 15c; dozen \$1.50.

INDIANA.—Orange, striped and dashed red; very large, fine flowers. Height 6 feet, foliage green. Each 20c; dozen \$2.00.

KING HUMBERT.—One of the grandest ever offered. Flowers extra large. Bright orange scarlet streaked with crimson. Foliage is bronze with brownish green stripes, large, thick and leathery. Strong grower, height 4 feet. Each 20c; dozen \$2.00.

LOUISIANA.—Fine. Color vivid scarlet. A strong grower; height 6 feet. Foliage green. Each 20c; dozen \$2.00.

MARTHA WASHINGTON.—Dwarf variety growing about 3 feet tall. Very profuse bloomer. Flowers large, and beautiful bright pink color. Each 20c; doz. \$2.00.

MONT BLANC.—The nearest pure white of any canna ever offered. The flowers are large and showy. Foliage green. Height 3 feet. Each 25c, dozen \$2.50.

NEW YORK.—Leaves very large and broad, dark purple color. Flower Scarlet. A splendid sort. Each 20c, dozen \$2.00.

PENNSYLVANIA.—One of the best orchid flowered sorts. Foliage green, flowers very large, bright scarlet, shaded orange; height 6 feet. Each 20c; dozen \$2.00.

SHENANDOAH.—A large pink flower of splendid form. Dwarf habit but strong grower. Height 3 feet. Bronze foliage. A popular sort. Each 20c; dozen \$2.00.

DAVID HARUM.—Height 3½ feet. A dark foliage variety, with very large petaled flowers of intense vermilion scarlet. Choice variety. Each 20c; dozen \$2.00.

UNCLE SAM.—Great, large flower of orange scarlet. A striking variety. Height 6 feet; green foliage. Each 25c; doz. \$2.50.

VENUS.—Height 4 feet. Flowers extra large, pink, bordered yellow. A general favorite because it makes a splendid show. See illustration at the left. Each 20c; dozen \$2.00.

WYOMING.—One of the majestic flowering cannas in orchid flowering class with a luxuriant growth of rich purple foliage. Above are borne great plumes of massive orange-colored blossoms with large petals. Seven feet. Each 20c; doz. \$2.00.

YELLOW KING HUMBERT.—A distinct shade bright yellow. Flowers large, plant strong and robust; a free bloomer. Foliage green. Height 3 feet. Each 25c; dozen \$2.50.

MIXED BEDDING CANNAS.—Each 15c; dozen \$1.50.



CALADIUM ESCULENTUM



FANCY LEAVED CALADIUMS



A. CROZY FLORENCE VAUGHAN
and VENUS

Uncle Sam Canna Collection

One each of the following choice varieties:

Brandywine, California, Indiana, Louisiana, Martha Washington, New York, Shenandoah, Uncle Sam, Pennsylvania. Ten superior sorts postpaid for only \$2.00.

Contrast Canna Bed Bargain

A few of the best as follows:

2 A. Crozy, 2 David Harum, 2 Venus, 2 Chas. Henderson, 2 Buttercup, 2 King Humbert. A fine contrast in flower and foliage.

Postpaid for \$2.00.

IT IS NOT NECESSARY TO PURCHASE BULBS EACH YEAR. THEY ARE EASILY KEPT THROUGH THE WINTER SEASON.

CINNAMON VINE

This beautiful climber possesses the rare quality of emitting from its flowers the delightful odor of cinnamon; is appropriately called the Cinnamon Vine. Perfectly hardy, the stem dying down every autumn, but growing again so rapidly as to completely cover any trellis or arbor very early in the season. With its beautiful heart-shaped leaves, clusters of delicate white flowers and delicious cinnamon odor it is most desirable. We furnish the large tubers, postpaid, for 15c; 2 for 25c; doz. \$1.25. We can supply small bulbets from which the large tubers may be grown in one season at 20c per doz.; 100 for \$1.00.

STATELY DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until frost. Especially fine for cut flowers. Out of the many varieties we have selected the following as of special value. For best results start roots early in the house. Late in the season, when dry roots become exhausted, we then fill orders with strong rooted pot plants.

DECORATIVE DAHLIAS

For type of blooms see Nos. 1 and 2 in group picture.

DELICE.—A new dahlia, greatly prized by specialists because it is a new shade—an exquisite glowing rose pink—a soft yet brilliant shade. Admirable in vigor and habit of growth. Ea. 30c, 3 for 75c.

ELSIE DAVIDSON.—Giant-flowering, deep golden yellow. A popular variety because of form and color. Each 35c.

JACK ROSE.—So named because the color is brilliant crimson red, almost exactly like the General Jacqueminot rose. Popular because of brilliant color which shows to advantage in any collection. Each 30c, 3 for 75c.

BARON GRANCY.—One of the best white decorative dahlias, resembling the paeony. Petals are uneven, giving the flower a unique appearance. Color white, effectively overlaid pink. Ea. 35c.

SYLVIA.—(See cut No. 2.)—A very lovely shade of mauve pink, shading to white in the center. A fine flower on a vigorous plant. One of the best decorative dahlias of lighter shade. Ea. 30c, 3 for 75c.

SOUVENIR de GUSTAV DOAZON.—Giant flower, strong plant. Ordinarily 6 inches and sometimes fully 9 inches across. Blooms in abundance. Color bright, dazzling red. Each 25c, 3 for 60c.

SHOW DAHLIAS

Type of blooms, Nos. 3, 4 and 5 of group picture.

A. D. LIVONI.—(See cut No. 4.)—Also offered under the name Ethel Vick. Early blooming variety. Very handsome and best of the pink show sorts. Each 30c, 3 for 75c.

W. W. RAWSON.—Flowers 18 inches in circumference; petals are rolled up so that they overlap each other. Color is pure snow white slightly tinged with delicate light blue at center. Each 35c, 3 for 90c.

LE GRAND MANITOU.—(No. 5.)—Richest crimson velvet. About half the petals are tipped with a large spot of white. Frequently flowers are solid scarlet, but most are variegated. Each 30c, 3 for 75c.

MERLIN.—A beautiful orange-scarlet. One of the very finest offered. Free flowering and good for cut flower purposes. Each 30c.

NORMA.—A dahlia that should be grown by all flower lovers. Flowers are large, perfectly quilled, and of a most exquisite shade live bright orange. Ea. 30c.

QUEEN VICTORIA.—Plant a robust grower and so covered with flowers as to appear almost like a solid mass of golden yellow color. Blooms early. Each 25c, 3 for 60c.

ROBERT BROOMFIELD.—Pure white. Tall grower. Each 30c.

STRADELLA.—Beautiful deep purple-crimson. Exceptionally free flowering. Stems long and wiry. One of the finest to date. Ea. 30c.

POMPON DAHLIAS

The small flowered type so popular for bouquets and cut flowers.

AMBER QUEEN.—An extra free bloomer, clear amber shaded apricot; fine. Each 25c, 2 for 60c.

DARKNESS.—Dark maroon. Furnishes the heavy color for contrast. Strong grower. Each 25c, 3 for 60c.

FAIRY QUEEN.—Sulphur yellow, edged pink. Each 20c.

PRINCE CHARMING.—Cream, very heavily tipped purple. One of the best. Each 30c, 3 for 75c.

SUNBEAM.—A crimson scarlet. Splendid as a solid color decoration any time or place. Ea. 30c, 3 for 75c.



DAHLIAS (REFER TO NUMBER IN DESCRIPTION)

CACTUS DAHLIAS

COUNTRESS OF LONSDALE.—A peculiar pleasing shade of salmon pink or apricot, shading to carmine at edge of petals. Strong, vigorous grower. Ea. 40c, 3 for \$1.00.

STERN.—A most attractive flower. Color is bright primrose yellow. Very bright and particularly pleasing in mixed bouquets. It will please dahlia lovers. Ea. 40c, 3 for \$1.

J. H. JACKSON.—The finest black cactus dahlia in existence. In color a perfectly gorgeous, deep, velvety blackish-maroon. Gigantic in size. Each 30c, 3 for 75c.

KREIMHILDE.—Bright, shining pink, gradually shading to white at the center. Vigorous grower producing the flowers on perfect long stems. Each 30c, 3 for 75c.



CACTUS DAHLIAS

TWENTIETH CENTURY DAHLIAS

BLANCHE.—The flowers are large and very attractive, being a pale yellow at the base, faintly tipped pink, with a cast of pure white over the whole flower, making it one of the most delicate varieties to date. Each 30c, 3 for 75c.

MILDRED.—One of the most charming of the single type. The color is a bright, clear yellow and exceptionally heavy. Each 40c.

ROSE PINK CENTURY.—Flowers six inches and over in diameter; of a clear rose pink color; a strong grower with long, stiff stems. Fine as a cut flower and shows extra well under artificial light. Each 30c, 3 for 75c.

20TH CENTURY.—Purest white at both base and tips, and the center of petals is a delicate blush rose. Very large, 5 to 7 inches in diameter. Each 30c, 3 for 75c.



TWENTIETH CENTURY DAHLIAS

THE BEST OF THE DIFFERENT DAHLIA TYPES ARE OFFERED. YOU CAN EASILY FIND YOUR FAVORITE AMONG THEM.



CHOICE GLADIOLUS.

These are a specialty with us. It is the most desirable of all bulbs and it is claimed by many who are well acquainted with their varied beauty, to be the flower of flowers.

NAMED VARIETIES

AMERICA.—A splendid new variety of beautiful soft pink shade. It will delight the gladiolus grower with its large flowers and pleasing beauty. Each 6c, dozen 60c.

AUGUSTA.—White ground color with blue shading. Fine variety as it is very vigorous and spikes are large and fine. A very beautiful flower. Each 7c, dozen 70c.

CHICAGO.—A splendid large flower of purest white borne in great spikes. Each 10c, dozen \$1.20.

AMETHYST.—A large, open flower of violet underlaid terra cotta. Rich and striking. Each 5c, dozen 50c.

GOLD COIN.—Cream yellow, rich maroon spots in lower petals. One of the best of light sorts. Ea. 6c, doz. 60c.

HALEY.—Color pure salmon pink. A very large, open flower, borne on spreading stalks. Each 5c, dozen 50c.

INDEPENDENCE.—Extra large open flowers handsome salmon rose color. Grows nearly 3 ft. high. Ea. 5c, doz. 50c.

MRS. FRANK PENDLETON.—Flowers large pink with brilliant carmine blotches on lower petals. Ea. 10c, doz. \$1.20.

MEADOWVALE.—Pure white ground, crimson throat and stripes of pink in lower petals. Beautiful. Ea. 5c, doz. 50c.

MRS. FRANCIS KING.—Great beauty. The color is pleasing light scarlet. The spike is strong, flowers large. Each 6c, dozen 60c.

NIAGARA.—Tall stalk, strong stem, vigorous; color canary and cream shadings. Splendid. Each 7c, dozen 70c.

PRINCEPS.—Rich crimson with deep shadings in throat, and fine large white blotches on the lower petals. Flowers large and fine. Each 7c, dozen 70c.

ROUGE TORCH.—A beautiful large white with scarlet feather in lower petals. A good variety. Each 7c, doz. 70c.

TACONIC.—A beautiful flower of a lovely pink color, striped and flaked lighter shade, and with throat of light blush. Each 7c, dozen 70c.

VELVET KING.—Almost solid colored flower of deep crimson. A very fine variety for bouquets or decorative effects. Each 7c, dozen 70c.

GLADIOLUS COLLECTION

One choice first size, extra large bulb each of America, Amethyst, Gold Coin, Meadow Vale, Bernice, Mrs. Frances King, and Rouge Torch; 7 choice sorts 40c, postpaid.

HYACINTHUS CANDICANS

The stems are 3 to 4 feet high; bear quantities of large, drooping flowers, ivory in color and bell-shaped. Delicately fragrant and by planting closely a clump of these will produce a charming effect. Large bulbs each 10c, doz. \$1.00.

SPECIAL GLADIOLI MIXTURES

For the benefit of such of our customers as wish a number of given tints for massing we are offering at attractive prices some of the choicest mixtures to be found in this country.

ALTOONA MIXED.—This is put first in our list of Gladioli because we believe it is the best mixture in existence. Is made from the named varieties on this page and other very choice sorts which we do not list. Large bulbs each 5c, dozen 50c, 100 for \$4.00.

SILVER TROPHY MIXED.—Considered one of the finest of commercial mixtures. Our stock was procured from the originator and has been carefully grown, so that we can without hesitation recommend it to our friends. Each 5c, dozen 50c, 100 for \$4.00.

FINE MIXED.—Our own mixture containing a wide range of color; offered at a very low price and we feel sure they will prove satisfactory. First size each 4c, dozen 40c, 100 for \$3.00.

BERNICE.—A popular light yellow, with buff and pink markings. Very fine. Each 5c, dozen 50c.

BRENCHLEYENSIS.—Deep vermilion scarlet. One of the brightest and most showy varieties. A few spikes make a striking bouquet. Each 6c, dozen 60c.

CANARY BIRD.—The best yellow variety. It is a good, vigorous grower and color of the flower is pleasing and attractive. Each 15c, dozen \$1.50.



INDEPENDENCE, CHICAGO AND PRINCEPS GLADIOLI



HYACINTHUS CANDICANS

THE EXTREMELY BEAUTIFUL FLOWERS OF THE GLADIOLUS MAKE THE FINEST CUT FLOWERS FOR USE IN TALL VASES.

BEAUTIFUL LILIES

Nothing can surpass the Lily in beauty, purity, delicacy and stately, magnificent grandeur. A few clumps planted in some place in your yard where they will not be disturbed from year to year, will reward you with abundant flowers. These varieties are, perhaps, the most popular lilies grown, being of easy cultivation, and producing large flowers of delicate beauty on strong stems. Bloom better the second year and thereafter.

AURATUM.—(Japanese Gold-Banded Lily.)—This is justly entitled to the name given it, "The Queen of Lilies." The immense flowers are produced in great profusion and are deliciously fragrant. The large white petals are thickly spotted with rich chocolate crimson, and have a bright golden yellow band through the center of each. Each 50c, dozen \$5.00.

SPECIOSUM RUBRUM.—These are perhaps the most popular lilies grown, being easy of cultivation and produce large flowers of delicate beauty on strong stems; height from 2 to 4 feet. Blooms in August. Flowers are white, with a deep rosy or crimson band on each petal, with deeper colored spots between. They are 5 to 6 inches in diameter, very fragrant and have all the hardness of the Speciosum class. Each 35c, 3 for \$1.00.

SPECIOSUM ALBUM.—The finest of the pure white, hardy perennial garden lilies. Has large white flowers of great substance, beautifully recurved. Each 40c, 3 for \$1.00.

MELPOMENE.—Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bearded with pinkish crimson. Petals recurved, widely bordered. Each 35c, 3 for \$1.00.

TENUIFOLIUM.—The lovely Coral Lily of Siberia, brightest of all lilies, of shining coral red color. Foliage finely cut. This is indeed a little beauty and will be a delight in your garden. Perfectly hardy and will increase in beauty each year. Each 25c, doz. \$2.50.



EASTERN SPLENDOR LILY COLLECTION

A selected choice bulb of each of following varieties:

Auratum Rubrum, Album and Melpomene

The finest varieties of cultivated lilies; all perfectly hardy anywhere. Postpaid for only 75c

Winter Blooming Bulbs

Owing to the world war we are unable to procure many items which we formerly listed. We have omitted some of the hardy Lilies, all the Hyacinths, Tulips and other Holland bulbs and some other plants and shrubs which we have imported in years past.

We cannot make prices on these bulbs for fall delivery now but will issue a list in August and will mail a copy to each of our greenhouse customers.



LILIUM TIGRINUM SPLENDENS

CALLA LILIES

These are generally sent out as dry bulbs, but the Little Gem variety are always started plants. Should our stock of dry bulbs become exhausted we will send growing plants instead.

MAMMOTH WHITE.—Largest flowering variety and most majestic. It is of perfect flowering form with large tropical appearing leaves of bright green color and yielding throughout the season a profusion of white flowers. Large size each 25c, 3 for 60c; medium size each 20c, 3 for 50c.

ELLIOTTIANA.—This magnificent new yellow calla is of marvelous beauty. The flowers are very large and of the brightest golden yellow. Leaves beautifully spotted with white. Each 35c; 3 for 90c.

LITTLE GEM.—A perfect miniature Calla, growing 8 to 12 inches high, producing beautiful snow-white blossoms. Blooms summer or winter, beginning when a few inches high. Growing Plants 20c, 3 for 50c.

SPOTTED LEAF.—Leaves deep green with white spots, giving plant a magnificent appearance. Flowers are of pure white with black centers. Each 20c, 3 for 50c.



Calla Elliottiana



DOUBLE TIGER LILY

HARDY EASTER LILY

The true Easter lily is not hardy and is grown in the house during the winter. The hardy variety (*Lilium Candidum*) can be grown in same way as other field lilies, but we cannot supply stock in spring. Popular for its purity and fragrance. Orders sent in spring will be filled in the fall. Each 25c.

TIGER LILIES

The old fashioned tiger lilies were favorites for many years, and are still popular. The improved varieties here offered are far superior to the old kind and are worthy a place in any garden.

DOUBLE TIGER LILY.—A double form of the Old Tiger Lily. The flower is densely double color orange red, spotted with black. Blooms freely; should be more largely grown. As hardy as the old-fashioned tiger lily and much more beautiful. Each 25c, doz. \$2.50.

TIGRINUM SPLENDENS.—An improved Tiger Lily growing sometimes 5 feet high and producing large pyramids of orange red flowers spotted with black. Each 20c, doz. \$2.00.



LITTLE GEM CALLA

THE HARDY FIELD LILIES CAN BE PLANTED IN EITHER THE SPRING OR FALL AND EQUALLY GOOD RESULTS OBTAINED.

HEMEROCALIS LILIES

Hardy, herbaceous plants that multiply rapidly. Very desirable for clumps and mass planting.

LEMON LILY.—Handsome flower for garden culture. Not a true lily, as bulb is different shape, but flower is much like *Lilium Speciosum* in form and about 3 inches in diameter. Color is different from others, a clear lemon yellow of very bright pleasing appearance. Have also a most delightful lemon fragrance. Immense amount of bloom produced. Each 20c; dozen \$2.00.

ORANGE LILY.—Similar to Lemon Lily, fine orange color. A bed of these and Lemon Lillies intermingled will give a most pleasing effect and a wealth of blossoms will be available for table decorations or bouquets. We wish all our flower loving customers to try the two lillies mentioned. Each 20c; dozen \$2.00.

BUTTERCUP LILY.—*Hemerocalis Thunbergii.*—Is a splendid variety of *Hemerocalis* which blooms in July. Grows 4 feet high and produces large lily-like flowers of buttercup yellow. Each 20c, dozen \$2.00.

SPECIAL OFFER.—We will send 2 Lemon and 2 Orange, 2 Buttercup Lily bulbs for 90c, postpaid.

LILY OF THE VALLEY

A well-known and universally admired spring flowering plant, bearing bell-shaped, freely produced and powerfully fragrant flowers. To grow in the open ground one should select a partly shaded and rather moist situation, and they are very charming when grown in large patches as their handsome green leaves and lovely sprays of flowers make a beautiful effect together. When once planted and established the crowns increase in number and the larger ones flower each year without attention. Now is the time to set out a bed of these delightful flowers. Our price is low for choice stock such as we send out. Four strong roots for 25c; dozen 75c.

MADEIRA VINE

Also called Mignonette Vine and Mexican Vine. A beautiful tuberous-rooted climber, with rather plain, thick leaves and handsome racemes of fragrant white flowers. The vine makes a very rapid growth and a few plants will cover a trellis or cottage in a single season. It is a very pretty thing to use for shading a porch or veranda, as the leaves are brilliant, glossy green. The bulbs are frequently known as "Madeira Potatoes," and our stock is particularly well grown, carefully sorted, strong and vigorous. Each 10c; dozen \$1.00.

SUMMER OXALIS

No bulb is so valuable for edging the borders of walks or flower beds as the beautiful flowering Oxalis. When planted three inches apart they produce an unbroken row of elegant foliage and pretty flowers; blooms quickly after planting.

SHAMROCK.—Leaves resemble four-leaf clover; the flowers rose color and borne in profusion on vine-like stems. Pretty for border. Per dozen 15c; 100 for \$1.25.

DIEPPI ALBA.—Pretty low-growing variety with light green leaves and clusters of pure white; bell-shaped flowers; blooms profusely. Dozen 15c; 100 for \$1.25.

LASIANDBA.—Large, dark green, palmate or five-fingered leaves, with clusters of rosy pink flowers. This is taller than above. A most satisfactory bulb for bordering flower beds. Doz. 15c, 100 for \$1.25.

TUBEROSE

NEW EXCELSIOR PEARL.—The tuberose is justly a universal favorite and very easily grown. This variety has short, robust stem and long spikes of large flowers, which are perfectly double and twice the size of the common tuberose, while of equally delicious fragrance. Spikes frequently bear 30 to 50 flowers, remaining in bloom for a long time. They are always wax-like, pure white, and unsurpassed for buttonhole bouquets. First size each 10c; dozen \$1.00. Medium size each 7c; dozen 70c.

MEXICAN SINGLE.—Grows 3 feet high, producing two to five flower stems from one bulb. Flowers single, pure white, much pleasanter in fragrance than the Pearl. Each 10c; doz. \$1.

VARIEGATED LEAVED.—Leaf bordered a creamy white; flowers single but very large and exquisitely fragrant. Bulbs continue to grow and bloom year after year. Each 10c, doz. \$1.

TRITOMA

PFITZERI.—(Flaming Torch.)—Flower spikes are produced in great freedom and are of rich orange scarlet, in bloom is a grand sight, or, scattered through the flower garden it adds brightness and is in its glory when nearly all other flowers are seared with frost. Each 35c.



LILY OF THE VALLEY



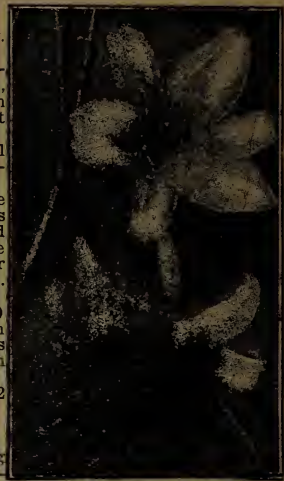
MADEIRA VINE



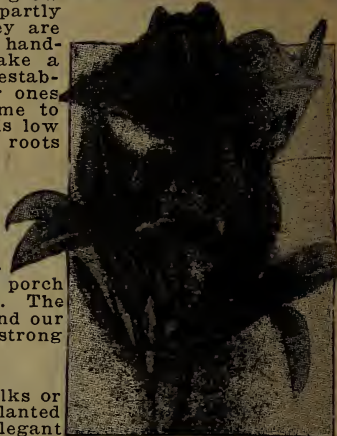
OXALIS SHAMROCK



TRITOMA PFITZERI



LEMON LILY



ORANGE LILY



PEARL TUBEROSE



WINDOW GARDEN SUPPLIES

These goods are sent by express or freight, customer paying charges, unless otherwise noted. Note mailing weight and postage required by parcel post.

STANDARD HOUSE AND GARDEN FERTILIZER.—A highly concentrated product which promotes luxuriant growth, increases yield, imparts a deep green color to foliage and brilliancy to flowers. A pinch for a house plant, a pound for 200 square feet of ground. Directions with each package. Half pound 35c; lb. 60c; 5 lbs. \$1.75. Add postage as per table page 13.

STERLINGWORTH PLANT TABLETS.—Highly concentrated food for plants, put up in small tablets to be used as needed. No. 1 pkg. (30 tablets) each 15c; No. 2 pkg. (100 tablets) each 25c; No. 3 pkg. (250 tablets) each 50c, postpaid at prices named.

RED SNAPPER PLANT FOOD.—A concentrated food for house plants, registered in Iowa. Trial size (10 oz.) 30c, postpaid. Regular size (24 oz.) Plant Food and 8 oz. Plant Tonic with booklet of instructions, postpaid 60c, or by express 50c; 12½ lb. bag with tonic and booklet; by express \$1.50.

FLOWER POTS.—The following prices per dozen are for pots and saucers: 4-in. \$1.25 5-in. \$1.75; 6-in. \$2.50; 7-in. \$4.25; 8-in. \$6.25. Packing 50c extra on each order unless it amounts to \$2.00 or more. Cannot go by mail.

PAPER FLOWER POTS.—Made of heavy strong waterproof paper. Fine for growing vegetable plants pansies, asters, etc. By using these you do not have to disturb roots of plants when setting in the open. 2½-in., by express, doz. 10c, 100 for 65c; 3-in., by express, doz. 15c, 100 for \$1.00; 4-in., by express, doz. 25c, 100 for \$1.75. If to go by mail add postage, weight per dozen, 1 lb., per 100 3 lbs. Write for quantity prices.

SCOLLAY'S SPRINKLERS.—Made of pliable rubber with metal cap. Large size holds about one pt., small size about one-third pt. Indispensable for floral work. Excellent for washing the foliage of house plants, and sprinkling clothes. Large, each \$2.00, small \$1.50, postpaid.



SCOLLAY'S SPRINKLER

FRUIT PACKAGES

We are prepared to furnish you the best stock made, at low prices. We handle a great many carloads each year, and from our long experience of more than a quarter of a century we are enabled to select superior stock. It pays to have bright stock which will make the fruit look nicer and sell better. Prices named here are subject to change during season. All goods in this department go by freight or express at customer's expense for carriage. If wanted by mail figure from Parcel Post Table on page 13, from weights given for each item, and send postage necessary.

NURSERYMEN'S SUPPLIES

GRAFTING WAX.—A special preparation for application where trees have been pruned; for preventing the loss of sap where wounds are made in the bark or from broken limbs and to hold grafts together while parts are healing. Price, ½ lb. pkg. 20c; mailing weight 1 lb.

TREE PRUNER.—Strong wooden handles 24 inches long; 1¼ inch cut; powerful and effective. The best pruner where branches are within reach. Each \$1.75. Mailing wt. 4 lbs.

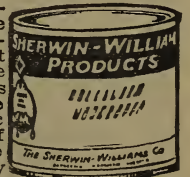
WATER'S TREE PRUNER.—The standard make; with 6-ft. pole \$1.65; 8-ft. pole \$1.85; 10-ft. pole \$2.00. Can't mail. **IMPROVED HAND PRUNING SHEARS.**—The best hand shears on the market. Made specially for pruning berry or rose bushes, grape vines, etc. Made of best steel, 8 inches long, straight spring (can't lose out). Price \$1.75. Mailing weight 1 lb. each.

CONNECTICUT PRUNING SHEARS.—A good tool for most work. Steel blades, spring and malleable handles. Price 85c. Mailing weight 1 lb.

TREE LABELS.—3½ inch, plain, copper wire. Per 100 45c, per 1,000 \$3.75. Not wired, per 100 30c, per 1,000 \$2.40. Mailing weight 4 lbs. per 1,000.

POT LABELS.—Smooth wood labels, 4-in. per 100 20c, per 1,000 \$2.40; 6-in. per 100 45c, 1,000 \$3.75; 10-in. per 100 \$1.00, per 1,000 \$9.00. Mailing weight, 4-in, 4lbs.; 6-in. 6 lbs.; 10-in. 10 lbs per 1,000.

PRUNING COMPOUND.—Sherwin-Williams Pruning Compound is one of the oldest mixtures of this type on the market. It is well known to many fruit growers. It is furnished in semi-paste form and thoroughly protects the wounds made in pruning, preventing the entrance of all moisture, and due to its antiseptic qualities, it prevents the development of fungus diseases which often take place unless the pruned wood is properly cared for. Price, per qt., 75c, gal. \$2.50.



BERRY BOXES.—Made of the best white wood (poplar), heart stock, cut smoothly, and perfect shape, size 4¼x4¼x3¾, to hold a dry measure quart. The bottom is set up for ventilation. Usually put up in bundles of 500 boxes complete for shipment and all ready for putting together, which can be done very rapidly. 500 at the 1,000 rate; broken bundles at the 100 rate. Price per 100 \$1.00; 1,000 \$7.00; 10,000 or more at \$6.50. Weight, 10 lbs. per 100.

PINT BOXES.—Same as regular quart size except they are only two inches high. For red raspberries and other soft fruits. Price same as quarts.

CRATES.—Made of thoroughly seasoned stock, well ventilated at sides and bottom, but with a tight cover to protect from dust. We always ship in the flat or "knock down." They make a neat, strong and cheap package holding 16 to 24 quart boxes. Price: 16-qt. crates per 10 \$2.50, per 100 \$21.00; 24-qt. crates per 10 \$3.00, per 100 \$27.50. Weight, 16-qt., each 4 lbs.; 24 qt., each 5 lbs.

CRATES FOR PINT BOXES.—24-pt. size, per 10, \$2.50; 100 for \$21.00. Weight 3½ lbs. each.

CRATE NAILS.—Far superior to common nails, as they hold much better. Ten pounds (makes 100 crates) \$1.00.

ANNEALED TACKS.—Made of the very best Swedes iron and of proper length so that they go through either two or three thicknesses of the material and clinch to hold securely. A lb. will make 1,000 boxes. Lb. 50c, 3 lbs. \$1.35.

WIRE STAPLING MACHINE.—Standard. For making berry boxes. The latest improved, operated by foot power, and can be easily operated by any one. Makes boxes very rapidly. Made in two sizes and can be shipped direct from the factory in Michigan at the following low prices: No. 1 (standard size) each \$40.00.

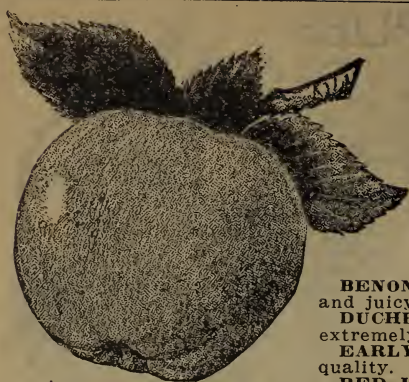
STAPLING WIRE.—To use with the above machine for making boxes. Per coil of 12 lbs. \$1.80, 5 coils or more at \$1.75 per coil.

MAGNETIC TACK HAMMER.—Picks up the tacks and saves much of the labor. Each 25c. Mailing weight 1 lb.

SPHAGNUM MOSS.—For packing plants and soft nursery stock. Write for price in quantity. Large wired bale \$1.75; burlap covered bale \$2.50.

EVERY YEAR BRINGS US HUNDREDS OF KIND LETTERS FROM OUR PLANT CUSTOMERS. OUR PLANTS PLEASE THEM.

NURSERY STOCK



YELLOW TRANSPARENT APPLE

CRAB APPLES

Price \$1.00 each, \$12.00 per dozen.

HYSLOP.—Small, dark red, splendid variety.
TRANSCENDENT.—Small, yellow, popular.
WHITNEY.—Large, bright red, vigorous and productive. A very popular variety.

CHERRIES

Price \$1.50 each, dozen \$18.00.

EARLY RICHMOND.—Medium size, dark red juicy, acid flavor. Unsurpassed for cooking. Standard early variety in Middle West.

MONTMORENCY.—Large red acid cherry; is larger than Early Richmond and about ten days later. A superior sort for home use.

WRAGG.—Large, late acid variety, dark purple; very productive.

ENGLISH MORELLO.—Deep, dark red. Very acid, but fine for pies. Late.

PEARS

Any of the following by exp. \$1.50 each, doz. \$18.
CLAPP'S FAVORITE.—Very large, yellow and dull red with russet specks. Rich and melting. Ripens in August.

KIEFFER.—Large, rich colored and good quality. Excellent for canning; will keep until winter. Hardy. Ripens in October.

BARTLETT.—Large size, excellent quality. A leading variety. Ripens in August.

SECKEL.—Small, but of excellent quality; very hardy. Ripens in September.

WORDEN SECKEL.—Seedling of Seckel but larger. Best quality. Ripens in September.

SHADE TREES

We shall be pleased to supply Shade or Ornamental Trees at prices given. Please remember they come direct from the nursery and cannot be shipped with any other goods except nursery stock.

ASH—American White.—Fine, hardy trees of symmetrical, rapid growth. 5 to 6 ft., 40c each; \$3.50 per 10. 6 to 8 ft., 60 each; \$5.50 per 10.

BOX ELDER.—Well known, quick-growing, hardy tree. Succeeds everywhere. 5 to 6 ft., each 40c; \$3.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

CAROLINA POPLAR.—Takes first rank among rapid growing trees. It thrives everywhere. Resembles Cottonwood but does not bear seed. 5 to 6 ft., 30c each; \$2.50 per 10. 6 to 8 ft., 40c each; \$3.50 per 10.

CATALPA SPECIOSA.—Fine, rapid grower. Valuable also for timber, posts and cross-ties. Popular in semi-arid regions. 5 to 6 ft., 40 each; \$3.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

ELM.—American White.—Well known, beautiful shade and park tree. 5 to 6 ft., 40c each; \$4.00 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

LINDEN.—American. Known also as Basswood or Whitewood. A fine spreading native tree with large leaves and fragrant flowers. 5 to 6 ft., \$1.00 each; \$10.00 per 10. 6 to 8 ft., \$1.50 each; \$15.00 per 10.

MAPLE—Soft or Silver.—Valuable for producing quick shade. 5 to 6 ft., 40c each; \$3.50 per 10. 6 to 8 ft., 60c each; \$5.50 per 10.

MAPLE—Hard or Sugar.—Slow grower but very hardy, valuable and beautiful. 5 to 6 ft., \$1.00; \$9.00 per 10. 6 to 8 ft., \$1.50 each; \$15.00 per 10.

NORWAY MAPLE.—Hard wood, fine foliage, with beautiful spreading top. 5 to 6 ft., \$1.00 each; \$9.00 per 10. 6 to 8 ft., \$1.50 each; \$15.00 per 10.

SYCAMORE—American.—Lofty, spreading tree with handsome broad leaves. 5 to 6 ft., 80c each; \$7.50 per 10. 6 to 8 ft., \$1.00 each; \$9.00 per 10.

Carefully packed and are sure to please.

Fifty or more of any sort sold at the hundred rate; purchaser to pay transportation charges by express or freight on all nursery stock unless otherwise quoted. Orders must amount to at least one dollar. These are shipped direct from the nursery and cannot be sent with other goods. Ask for special prices on large orders.

APPLES

Price \$1.00 each, \$12.00 per dozen, 100 for \$100.

Summer Varieties

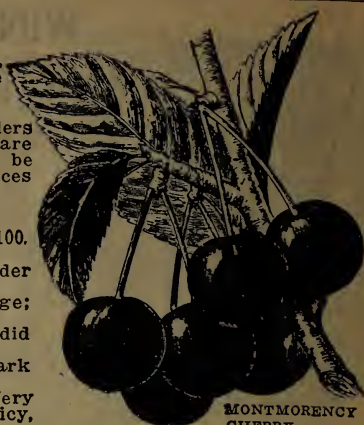
BENONI.—Medium size, bright red; rich flavor, tender and juicy. Very productive.

DUCHESS.—Yellow, striped red; medium to large; extremely hardy and productive.

EARLY HARVEST.—Large, golden yellow; splendid quality. Very popular in Iowa for many years.

RED JUNE.—Choice quality, very early, bright dark red, small to medium size.

YELLOW TRANSPARENT.—Very early, light yellow medium size; juicy, sub-acid.



MONTMORENCY CHERRY.

Autumn Varieties.

MAIDEN'S BLUSH.—Yellow with beautiful blush cheek. Good quality. Medium large.

RAMBO.—Small to medium, striped yellow and red. Quality extra choice.

RAMSDALE SWEET.—Large. Rather oblong shape. Dark red. Best fall sweet apple.

FAMEUSE.—(Snow Apple.)—Deep dark red, flesh very white, juicy and rich. Splendid sort.

AUTUMN STRAWBERRY.—Beautiful striped yellow and red fruit, medium size, fine quality.

Winter Varieties

BALDWIN.—Famous eastern market apple. Large, bright red, crisp, juicy and rich.

BANANA.—Large, golden yellow, blush cheek. Fine quality. Popular with western orchardists.

BEN DAVIS.—Large, red, striped yellow, good quality, good keeper. Profitable market sort.

DELICIOUS.—Large, brilliant red, shading to a golden yellow at blossom end. Extra quality.

GRIMES GOLDEN.—Large, golden yellow. Favorite sort because of extra choice quality.

GENETIN.—(Rawle's Janet.)—Small to medium in size, red and yellow striped. Very productive, long keeper.

JONATHAN.—Most popular of all. Large, deep red. Rich flavor, juicy and sweet.

NORTHWESTERN GREENING.—Large, light green. The fruit has been kept for a year.

TALMAN'S SWEET.—Medium size. Pale whitish yellow. Good quality. Standard sweet apple.

WEALTHY.—Large, red, showy, sub-acid and productive. Most popular of all.

WINESAP.—Medium. Deep red. Quality very fine. Rich, crisp flesh, sub-acid flavor. Popular.

WOLF RIVER.—Largest of all; grow to weigh 4 lbs. Quality fair. Yellow, striped light red. Productive.



BOKHARA PEACH



KIEFFER PEAR

PEACHES

Each 75c, dozen \$9.00

CROSBY.—Medium size, bright orange yellow, streaked carmine. One of the best standard sorts and claimed to be the hardiest of all. Ripens in September.

CHAMPION.—Fruit large, beautiful in appearance, excellent flavor, skin creamy white with red cheeks, extremely hardy with free stones. Ripens in late August.

ELBERTA.—The most popular early market sort. Large, bright lemon yellow, with blush cheeks. Ripens in August.

BOKHARA.—Originally from Russia. Grown successfully in Iowa. Freestones, medium size, handsome yellow blush cheek; flesh white, juicy, fine flavored. Medium early.

PLUMS

By express, each \$1.50, dozen \$18.00.

ABUNDANCE.—Hardest of Japanese varieties. Large, showy and fine quality.

BURBANK.—Considered by some to be the best of all the European sorts. Color clear cherry red with thin lilac bloom. Flesh deep yellow, very sweet and agreeable.

DESOTO.—Bright red. Very prolific, of good quality. A standard native variety.

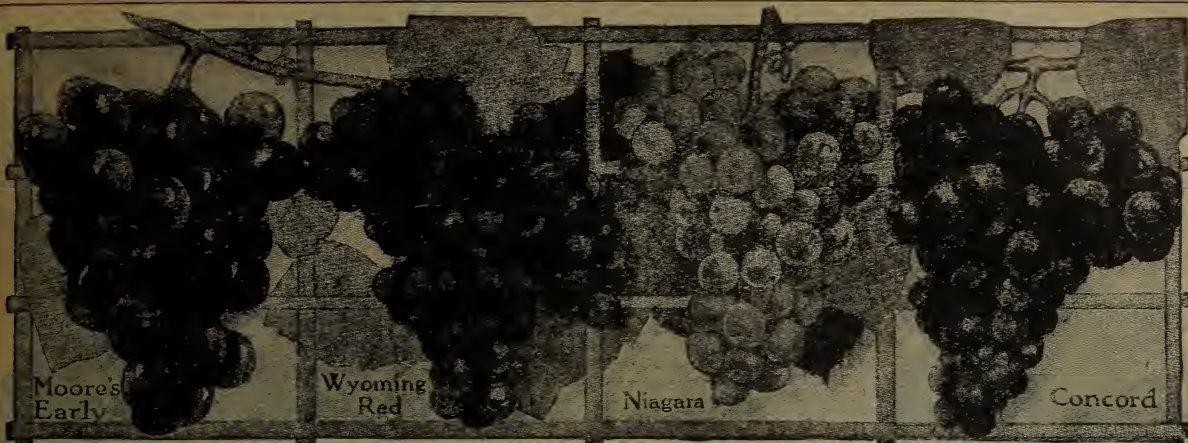
FOREST GARDEN.—Large, mottled red and yellow, very very sweet and rich.

WEAVER.—Flesh firm, red, juicy, with flavor resembling apricot, freestone, early bearer and very productive, hardy and said to be curculio proof.

WILD GOOSE.—Large, rich and melting; delicious. Strong grower and prolific.

Five shade trees of a kind will be sold at the ten rate and six fruit trees any kind at dozen rate. Can furnish stock in any size larger than given above. Write for prices.

BE SURE TO SUBMIT YOUR LIST FOR PRICES IF YOU WANT A QUANTITY OF OUR HIGH GRADE NURSERY STOCK.



GRAPES

Our grape vines are No. 1 one-year vines which experience has shown to be the best size for transplanting. The most robust vines are marketed by nurserymen generally at one year old; the culls grown another season and sold as two-year-olds. Write for prices in large lots.

AGAWAM.—Berries are very large and bright red, with thick skin; very vigorous grower. The fruit is of good quality. Each 35c, dozen \$3.50.

BRIGHTON.—Of best quality. Bunch and berry large, of bright red color, and it is quite productive. Each 40c, dozen \$4.00.

CAMPBELL'S EARLY.—Strong grower, large, with healthy foliage. Very productive; keeping and shipping qualities unequaled by any early grape. Ripens with Moore's Early. Bunch and berry large, glossy black with blue bloom. Sweet and juicy; clusters usually shoulder. Each 40c, doz. \$4.00.

CONCORD.—Well known standard black sort. Succeeds everywhere. Each 25c, dozen \$2.50.

MOORE'S EARLY.—Bunch large, berry very large and round, vines are exceedingly hardy. Desirable early market black variety; popular. Each 35c, doz. \$3.50.

NIAGARA.—A leading white sort; very productive and hardy. Bunch is white, changing to pale yellow when fully ripe; skin is thin and tough. Quality extra fine. Each 40c, doz. \$4.00.

WYOMING RED.—Claimed to be as choice in quality as the Delaware. Fruit is larger and brighter red than that sort. Each 35c, doz. \$3.50, per 100 \$27.50.

WORDEN.—A large grape of the Concord type, much earlier, larger and of better quality; hardy and more productive. Each 25c, dozen \$2.50, per 100 \$15.00.

BLACKBERRIES

SNYDER.—Standard sort. No other so prolific or so desirable for shipping. Doz. 75c, 100 \$6.00.

ANCIENT BRITON.—Regarded as one of the hardiest and is especially adapted to Iowa, Wisconsin and Minnesota. Dozen 75c, 100 for \$6.00.

BLOWERS.—A sturdy grower and quite hardy. The fruits are large, melting, and of splendid quality. Dozen \$1.00, 100 for \$6.00.

EVERGREENS

Our evergreens are all nice shapes and packed to reach you in good condition.

Variety	Size	Each	Doz.
American Arbor Vitae	12 to 18 in.	\$.40	\$4.00
American Arbor Vitae	18 to 24 in.	.60	6.00
American Arbor Vitae	24 to 36 in.	.75	7.50
Scotch Pine	12 to 18 in.	.50	5.00
Scotch Pine	18 to 24 in.	.60	6.00
Scotch Pine	24 to 36 in.	.75	7.50
Norway Spruce	12 to 18 in.	.40	4.00
Norway Spruce	18 to 24 in.	.60	6.00
Norway Spruce	24 to 36 in.	.75	7.50

CURRENTS

Cannot ship west of Missouri River.

POMONA.—Most productive and vigorous. Ripen early but remain on the bush longer than any other; remarkably fine quality. Each 35c, doz. \$3.50.

FAY'S PROLIFIC.—One of the most prolific, of excellent quality. Each 35c, doz. \$3.50.

WHITE GRAPE.—Standard variety. Fruits are light colored, mild and fine flavor. Each 35c, dozen \$3.50.

GOOSEBERRIES

Cannot ship west of Missouri River.

CHAMPION.—A new variety from Minnesota. Hardy, free from mildew, very productive, large size and recommended as the best. Each 30c, doz. \$3.00.

JOSELYN.—Of superior merit. Is very large, hardy, productive and free from mildew. Each 35c, doz. \$3.50.

PEARL.—Most prolific; hardy, entirely free of mildew. Superior size and yield. Each 35c, dozen \$3.50.

HOUGHTON.—Pale red, good quality, productive. Each 25c, doz. \$2.50.

DEWBERRIES

LCRETIA.—The best dewberry for this section. Berries much larger and better quality than blackberries. Doz. \$1.00, 100 for \$6.00.

RASPBERRIES

Our varieties are all tip grown plants. We do not sell sucker plants, nor varieties which propagate from suckers.

COLUMBIAN.—This is a leading purple-red variety. Fruit is rich and sprightly in flavor, and is superior for canning, jam or preserving. Grows very large, strong and vigorous and yields immensely. Dozen \$1.25, 100 for \$8.00.

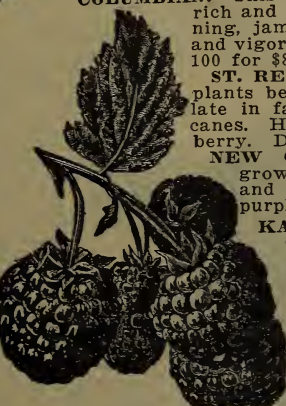
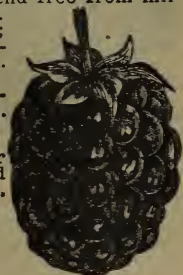
ST. REGIS.—Everbearing red variety. Spring set plants bear the first year, continuing to fruit until late in fall, late crop coming on the tips of new canes. Hardy and the best everbearing red raspberry. Dozen \$1.50, 100 for \$10.00.

NEW CARDINAL.—Surprises all by its great growth, extreme hardness, great productiveness and the unusual richness of its flavor, large purple berries. Dozen \$1.25, 100 for \$8.00.

KANSAS.—Ripens about one week earlier than Gregg. Fruit large and firm. Valuable as a home or market variety. Doz. 75c, 100 \$6.

GREGG.—Hardy and excellent. Has been leading blackcap sort for many years. Doz. 75c, 100 for \$6.00.

CUMBERLAND.—One of the best of blackcap variety. It is of very large size, good quality, firm and handsome and an excellent shipper. Plants vigorous and hardy, productive and free from disease. Dozen 75c, 100 for \$6.00.



WEeping TREES

WEIR'S CUT LEAF MAPLE.—Cut leaved, very hardy and graceful. 5 to 6 ft., 80c each; \$7.00 per 10. 6 to 8 ft., \$1.10 each; \$10.00 per 10.

WISCONSIN WILLOW.—An upright grower but with drooping twigs. 5 to 6 ft., 50c each; 6 to 8 ft., 75c each.

WEeping CUT LEAF BIRCH.—Perhaps the most elegant of all lawn trees. Delicate foliage, silvery white bark. Tall and slender but a vigorous grower. Every householder should have one or two specimens. 5 to 6 ft., \$1.50 each; 6 to 8 ft., \$2.00 each.

TEA'S WEeping MULBERRY.—Very distinct and beautiful. Hardy, 1-year, each \$2.50.

ORNAMENTAL TREES

BECHTEL'S FLOWERING CRAB.—Medium size tree and large, very double, fragrant flowers. 2 to 3 feet, \$1.00 each. 3 to 4 feet, \$1.50 each.

CHESTNUT—The American Sweet.—Well known; valuable for nuts and lumber. 5 to 6 ft., 75c each; \$6.50 per 10. 6 to 8 ft., \$1.00 each; \$9.00 per 10.

SCHWEDLER'S MAPLE.—Red foliage in spring changing to green in summer and red again in the fall. Beautiful tree for parking. 5 to 6 ft., \$2.00 each; \$20.00 per 10. 6 to 8 ft., \$2.50 each; \$25.00 per 10.

MOUNTAIN ASH.—A fine hardy, small tree. Bears red berries. 5 to 6 ft., \$1.00 ea.; \$8.50 per 10. 6 to 8 ft., \$1.25 ea.

STRAWBERRIES

Quick service and special packing is necessary in handling strawberry plants. For these reasons we ship strawberry plants by themselves. Perfect flowered sorts are marked (s); imperfect marked (p), must have perfect flowered planted with them. Ask for quantity price.

AROMA (s).—The best and most profitable late berry. It is very prolific and of most excellent color and quality. Plants strong, vigorous and free from disease. Fruits very large, roundish, conical, glossy and bright. Per 100 \$1.25, postpaid. By exp., per 100, \$1.00, 500 \$5.00.

BEDERWOOD (s).—One of the best varieties for planting with Warfield or Crescent. Produces a large amount of pollen. Fruit is of excellent color and a good shipper. Ripens early. Doz. 30c; 100, \$2.00, postpaid. By express per 100, \$1.75; 500 for \$7.50.

BRANDYWINE (s).—Large berry, vigorous, strong grower, and a large, heavy plant. Fine for market, large, firm and handsome red color. Blooms perfect, a good fertilizer for other sort. Doz. 30c; 100 for \$2.00, postpaid. By express 100 for \$1.75; 500 for \$7.50.

BUBACH (p).—Its large, uniform size, fine form and color, unsurpassed yield and great vigor combine to make it a leading sort. Rather late. Per doz. 30c; 100, \$2. By exp., 100, \$1.25; 500, \$7.50.

CLYDE (s).—One of the most popular varieties in the West. It is of vigorous growth and very productive. Berries deep scarlet and moderately firm. Decidedly the best early sort. Per doz. 30c; 100, \$1.85, postpaid. By exp., 100, \$1.60; 500, \$8.00.

CRESCENT (p).—Standard variety. Produces a large crop where other sorts fail, as it stands neglect. The berry is of medium size and good quality. Per doz. 25c; per 100, \$1.25, postpaid. By express, per 100, \$1.00; 500 for \$5.00.

SENATOR DUNLAP (s).—Medium sized sort; is very hardy, productive, a vigorous grower. Bears until quite late. Unsurpassed in quality; claimed best all around variety. Doz. 30c; 100, \$2.00, postpaid. By express, 100 \$1.75; 500 \$7.50.

WARFIELD (p).—One of the best known market berries, medium size, excellent quality, and a good shipper. One of the best early and maintains its size well throughout the season. Doz. 25c; 100 \$1.25, postpaid. By exp., 100, \$1.00; 500 for \$5.00.



SENATOR
DUNLAP



BUBACH



WARFIELD



CLYDE

OUR FAMOUS STRAWBERRY BARGAIN FALL BEARING STRAWBERRIES

For several years we have featured this bargain collection with wonderful satisfaction to our customers, thousands of whom have taken advantage of our knowledge of varieties and facilities to supply choice plants. 25c each Aroma, Dunlap, Bederwood, Warfield.

Four varieties, furnishing both male and female blossoms suitable to grow together and give a succession of fruit all season. 100 plants all well rooted, vigorous and young plants that have never fruited. Postpaid \$2.00.



New race of strawberries that produce ripe fruit in October and November, generally until hard frosts. Have a tendency to fruit in June, but if permitted to bear at this time the fall crop is curtailed. Pinch off blooms that set to July 1st and you will have fine fruit for fall. Fruit first year from spring set plants, and if you want strawberries next fall plant the everbearing sorts now and get a crop up to Thanksgiving. When first introduced, fruits were small, production was limited and they were not favorably received. They have been greatly improved and we are now ready to recommend the varieties which we list.

SUPERB.—This variety is most widely known and one of the best. Shape is somewhat uneven, like the Bubach as shown above. Berry is large, deep crimson in color, firm and solid, and of excellent quality. Very prolific and a strong grower.

PROGRESSIVE.—A cross of Senator Dunlap on the Pan American, which was the first of the fall bearing varieties. It retains the habit of fall fruiting, while the berries resemble in form and color the Dunlap. The plant is very vigorous and productive, and it holds first place among fall bearing sorts as the Dunlap does among the common kinds.

PRICES: Either Superb, Progressive, or both: Per dozen, 60c; per 100, \$4.00; 200, \$7.50, postpaid. By express, not prepaid, 300 for \$6.50.

CERTIFICATE OF NURSERY INSPECTION.

Office of The State Entomologist, State of Iowa, Ames, Iowa, Number 126. This certifies that the nursery premises of Iowa Seed Company, located at Des Moines, Iowa, has been inspected as provided by the laws of Iowa (Section 2575-a51 supplement to the Code 1913 and found apparently free from dangerous insects, pests or plant diseases. Permission is hereby granted to the owners of the above named nursery stock which has been inspected for the year ending September 1st, 1921 provided that a copy of this certificate is attached to each container. Certificate expires September 1st, 1921.—E. D. BALL, State Entomologist.

WE SELL THOUSANDS OF OUR FAMOUS STRAWBERRY BARGAINS EACH YEAR. THEY GIVE SATISFACTION TO PLANTERS.

LAWN SUPPLIES

Customers to pay cost of transportation on goods in this department. Items which can be mailed are listed with shipping weight and you can add postage, if you want them to come by mail, add postage according to parcel post table on page 13. Ask for Free Book-let "How to Make a Lawn." See page 65 for lawn grass seed and fertilizer.

PASTIME LAWN MOWER.—After many years' experience in the lawn mower trade, we have adopted the policy of confining our line to one style and two sizes. The real problem is to get the very best mower possible at a fair price and offer it in sizes most convenient. In our Pastime mowers we have a new style which we are offering as the easiest running mower yet produced. It is ball bearing and has four cutting knives. The wheels are 9 1/4 inches in diameter. Illustration shows general style of the machine. The writer uses one at his own home and recommends it as the best mower we have ever had. Price, 16-inch \$16.00, 18-inch \$18.00.

GRASS CATCHERS.—Most successful device for the purpose. Attached to handle only. Does not interfere with action of mower. Illustration shows it adjusted. Can be quickly adjusted at lower end to dump grass. No. 1, for 12 to 16-inch ordinary mowers, each 75c. No. 20, for large mowers, size 16 to 20-inch, each \$1.00. Mailing weight 2 lbs. each.

LITTLE GIANT MOLE TRAP.—Not so large as the Reddick but principle is similar. Strong, durable and will do the work. Is easily set. Has a strong spring with great force. Each, by exp., \$1.75. Weight 2 lbs.

REDDICK MOLE TRAP.—If you are bothered with moles you should purchase one of these traps. It is undoubtedly the best trap made and no mole can pass under it and live. Each, by express \$1.75. Weight 2 lbs.

PASTIME
Lawn Mower and
Grass Catcher

LITTLE
GIANT
MOLE
TRAP

SPRAYERS

Each year proves the importance of spraying fruit trees and plants in order to destroy the insects and secure a good crop. The most successful fruit growers are the most enthusiastic on spraying. It will pay you to invest in spraying apparatus if you have only one fruit tree. The spraying of apple and plum trees is especially recommended. A circular giving full information mailed free on request. All spray pumps are sent by freight or express, not prepaid, except where noted.

THE AUTO-SPRAY NO. 1.—Compressed Air Sprayer.—Our Choice of compressed air pumps of strength and simplicity. Will not get out of repair and is kept absolutely clean without difficulty. Diameter 7 inches; height 2 feet; capacity 3 1/2 gals.; weight empty 7 lbs.; weight loaded 39 lbs.; weight shipping 15 lbs. Illustration shows mechanism. If additional information is wanted, send for circular of the Auto-Spray. Prices: Auto-Spray No. 1B, brass tank with "Auto-Pop," \$12.00. Auto-Spray No. 1D, galv. tank with "Auto-Pop," \$9.00. Two-foot brass extension rod, postpaid, 75c.

UTILITY NO. 10.—Compressed Air Sprayer.—Adapted for spraying, whitewashing and disinfecting. Made of galv. steel, size 7 1/4 x 20 inches, capacity 3 1/2 gals. Has angle nozzle of automatic shut-off type with extension feature, equipped with strainer, with fine, medium and coarse discs. Shipping weight 10 lbs. Price, each \$7.50.

UTILITY NO. 15.—Same as above with brass tank, very durable, ea. \$11. **IMPROVED FAULTLESS, or "Misty" Sprayer.**—Shaped like the standard Faultless, but the spray nozzle protrudes through the tank, making it stronger. Mailing weight 2 pounds. By express, brass \$1.00; galvanized iron 75c; tin 50c.

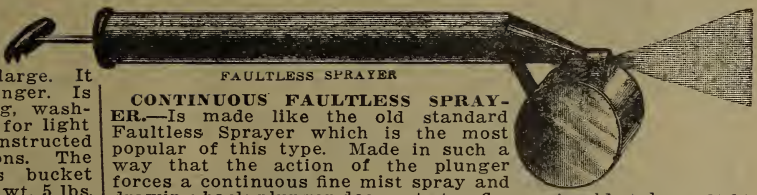
LOWELL BUCKET PUMP.—A low priced, serviceable bucket pump, made similar in pattern to the Little Giant; not quite so large. It has only one tube with plunger. Is useful for garden spraying, washing autos or windows, and for light work generally. Well constructed and will last many seasons. The best of the small brass bucket pumps. Each \$6.00. Mailing wt. 5 lbs.

THE LITTLE GIANT BUCKET SPRAY PUMP.—Constructed entirely of brass and is provided with a large air chamber and has ball valves, and the pressure is held uniformly so the nozzle throws a continuous spray. Will throw a solid stream 50 to 60 feet; fitted with hose and imperial combination and fine and coarse spray, solid stream nozzle and foot rest. Price by exp. \$8.00. 8-ft. pipe extension, by exp. 75c. Mailing wt. of pump 7 lbs.; of extension pipe 2 lbs.

LEVER BUCKET OR BARREL SPRAY PUMP.—Similar to the Little Giant but is larger, has lever handle and can be attached to bucket or barrel. Action of the plunger keeps liquid thoroughly mixed. Made entirely of brass, will not rust. Price by exp. \$12.00 8-in. extension pipe (for use among large trees), by exp. 75c. Mailing wt. of pump 9 lbs.; of pipe 2 lbs.

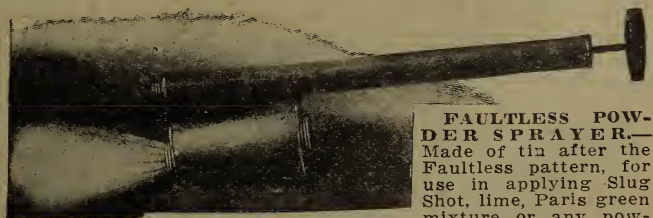


AUTO SPRAYER



FAULTLESS SPRAYER

CONTINUOUS FAULTLESS SPRAYER.—Is made like the old standard Faultless Sprayer which is the most popular of this type. Made in such a way that the action of the plunger forces a continuous fine mist spray and drawing back plunger does not stop flow as in old style sprayer. Add postage for mailing, wt. 2 lbs. By exp., brass \$1.75, tin, \$1.

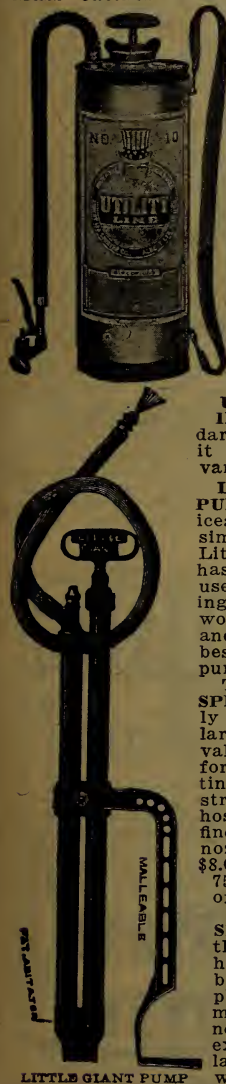


FAULTLESS POWDER SPRAYER.

Made of tin after the Faultless pattern, for use in applying Slug Shot, lime, Paris green mixture or any powder form of insecticides.

FAULTLESS POWDER SPRAYER.—Light and easily handled. Does the work perfectly and it is the most economical method in quantity of powder applied. It is cheap and effective. If to go by mail add postage for mailing. By exp., not prepaid, \$1.00. Mailing weight 4 lbs.

DUSTERS.—Buckets with perforated bottom, used for applying Slug Shot or other forms of powdered insecticides. Very convenient and effective for the purpose. Each, by exp., 75c. Mailing weight 1 pound.



LITTLE GIANT PUMP

SPRAY MATERIALS

Sherwin-Williams Insecticides,

Poisons are not mailable. All items on this page go at customer's expense.

It is vitally important to conserve and protect fruit and vegetables from insect pests. Spraying is the best method to combat the insects and diseases and present methods of manufacture have given us insecticides in most condensed form, and in formulas ready for instant use for any purpose.

The Sherwin-Williams Co., has developed a large line of insecticides in dry powdered form thus being convenient to handle and to keep until used. There is no danger of freezing or loss through leakage, and the cost of transportation is reduced to the lowest possible cost.



DRY LIME SULFUR.—The use and success of Lime-Sulfur solution is known to practically every fruit grower in the country, and every grower is also familiar with the trouble in handling liquid lime-sulfur. There is over 50 per cent water, which means heavy freight charge. It freezes in cold weather and leaks from the barrel in summer and all in all is simply unpleasant to handle. Sherwin-Williams Dry Lime-Sulfur is true lime-sulfur solution in dry powdered form—the first and only one of its kind on the market. It has all the advantages of the liquid material, but eliminates the disadvantage. Its effectiveness has been proven by large fruit growers and practically all Experiment Stations. It is protected by U. S. patent. Price: 1 lb. 40c, 5 lbs. \$1.60, 10 lbs. \$3.00, 25 lbs. \$6.00.



FUNGI BORDO.—Dry Powdered Fungi-Bordo is a true Bordeaux mixture in dry powdered form, requiring only to be mixed with cold water to give a standard Bordeaux mixture, spray. The convenience and value of having Bordeaux mixture in dry powdered form will be instantly recognized by all fruit growers. Bordeaux mixture is the standard material for the control of diseases in orchard, vineyard and garden. None of the other mixtures are so good for this purpose. Directions on package. Price: 1 lb. 55c, 5 lbs. \$2.60.

PESTROY.—Sherwin-Williams Dry Powdered Pestroy is a combination Bordeaux mixture and arsenate of lead to save the time and trouble of making up and combining Bordeaux solution and the arsenate of lead mixture. It is especially recommended for fruit trees and garden crops, and is equally as effective on potatoes. The formula of Pestroy is such that when used according to directions, a spray will be obtained equivalent to the standard 3-3-50 or 4-5-50 Bordeaux mixture, plus the usual quantities of arsenate of lead. Price: 1 lb. 65c, 5 lbs. \$2.35.

BLACK LEAF 40.—There are many types of insects that cannot be controlled with a poison such as Paris green or arsenate of lead. The most common insect of this type is the plant louse or aphid. Many forms of lice attack different fruits and flowers. They are controlled by the use of "contact" insecticides, such as this, which is about 40 per cent Nicotine. Very powerful and one gallon will make from eight hundred to one thousand gallons of spray. Recommended for outdoor uses and for house plants indoors. Price: 1 oz. can, 25c, ½ lb. \$1.00.

NICO-FUME.—A condensed preparation of tobacco, 40 per cent nicotine. Best spraying and fumigating preparation for greenhouse use, since it does not injure plants or blooms and kills aphid, red spider and mealy bugs. Use one ounce in 10 to 15 gallons of water, and it will be even better if a pound of whale oil soap is added. Price: 4-oz. can 65c, 1 lb. \$2.00, 8 lbs. \$14.50.

CROW BRAND INSECT POWDER.—Best grade. Fresh and nice. It does not pay to use cheap, ordinary grades. Splendid for home use to kill cockroaches, ants and flies. Owing to war conditions price on this item is subject to change. By express, ¼ lb. 50c, lb. \$1.65.

FUMIGATING AND DUSTING POWDER.—Formerly sold under the name of Tobacco Dust. Destroys rose bugs, lice, cut worms, vine bugs, tomato worms, cabbage lice and parasites of all descriptions. Apply when foliage is wet. Also a fertilizer and will not burn or injure plants. By express, lb. 10c, 5 lbs. for 35c, 100 lbs. for \$6.00.

HAMMOND'S SLUG SHOT.—A combination of potent insecticides and soluble plant food. It destroys all insects injurious to shrubs, trees and plants. Poisonous to insects but not to foliage. 1 lb. 25c, 5 lbs. 75c, 10 lbs. \$1.40, 100 lbs. \$13.00.



PARIS GREEN.—Sherwin-Williams Paris Green has by years of use proven its quality. It has become the standard Paris Green in many localities. It is light and fluffy, insuring good suspension in the spray tank and thorough covering of the foliage, contains approximately 56% arsenious oxide and less water soluble than is allowed by the law. It is one of the safest and most effective Paris Greens on the market today. Price: ¼ lb. 25c; 1 lb. 80c; 5 lbs. \$3.75.

ARSENATE OF CALCIUM.—Arsenate of Calcium is by no means a new insecticide but is perhaps not quite as well known to many growers as arsenate of lead and Paris Green. Sherwin-Williams Arsenate of Calcium contains the maximum quantity of arsenic oxide, namely, 43 per cent, and when used according to directions will give splendid results. It stays in suspension in the spray tank, insuring even and uniform distribution on the foliage. Price ½ lb. 35c; 1 lb. 60c, 5 lbs. \$2.75.

DRY POWDERED ARSENATE OF LEAD.—Because of its unusual lightness, stays thoroughly in suspension giving the spray uniform strength. It contains from 30 to 33 per cent arsenic oxide thoroughly in combination with lead and less than 1 per cent water soluble arsenic. This means that it has maximum killing power, speedy action and unquestionable effectiveness in controlling leaf-eating and chewing insects, and, due to its low percentage of water soluble arsenic, there is no danger of burning the foliage. This means that it clings to the foliage for the longest possible time, which means effective control of insects at the lowest cost. Price: ½ lb. 40c; 1 lb. 70c, 5 lbs. \$3.00.

TUBER-TONIC.—Dry Powdered Tuber Tonic is a combination spray, having the desirable quick killing properties of Paris green, and adhesiveness of arsenate of lead, and fungus preventive qualities of Bordeaux mixture. Unlike Paris green, it remains on the foliage even when subjected to heavy dews or rains, and future spraying becomes necessary only to protect new growth as foliage appears. Many large potato growers in this country have used Tuber-Tonic with splendid results and reorder year after year. Price: 1 lb. 65c, 5 lbs. \$2.85.

WOLF'S GARDITE

This is a splendid preparation for use at home either on flowers or vegetables. It is a dry powder in a carton with perforated top so that it is easily applied. Useful for house plants and in window gardening. Gardite is not poisonous, it is a thorough effective garden insecticide that doesn't contain one iota of poisonous chemicals or other ingredients harmful to human health. When you use it in your garden you needn't fear danger to your family in eating your home grown vegetables—Gardite harms only worms and insects—and improves the tenderness and nourishing qualities of your garden crops. A light application frequently applied is the best method, but it is harmless to foliage so there is no danger in using too much. Because it is not a poison it can be sent through the mails. Customers in Iowa will add 6 cents to the quoted price per can for postage, or 8 cents for two cans. Friends in other states will add postage as per table on page 13. Price, 35 cents.



Planet Jr TOOLS AND IMPLEMENTS

Two million workers, the world over, testify to the durability, economy, labor and time-saving advantages of an Planet Jr. tools. Wherever you are, whatever you grow, Planet Jr.s. are scientific aids to bigger profits. Every tool guaranteed by the manufacturers. We have sold these machines for over forty years.

We illustrate the most popular models of these valuable tools and will send catalogue describing many others for garden, farm or orchard, upon request. Send postal for complete Planet Jr. catalogue—today.

PLANET JR. NO. 4 COMBINED SEEDER AND CULTIVATOR.—This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price \$20.00. No. 4-D (As a Seeder only) \$16.00.

PLANET JR. NO. 4 SEEDER AND CULTIVATOR

NO. 25 COMBINED SEEDER, DOUBLE AND SINGLE WHEEL HOE.—As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high.

Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools. Price \$24.00.

PLANET JR. NO. 25 HILL AND DRILL SEEDER

PLANET JR. NO. 31 COMBINED DRILL SEEDER AND SINGLE WHEEL HOE.—A combined machine at a low price for the private gardener. The index is easily set, it will sow even a packet of seed and flow of seed is stopped by simply raising the handles. Also can be used as a single wheel hoe. Illustration shows the cultivating attachments.

Price \$13.50.

No. 32-D.—The drill part only of the above machine. Attachments can be purchased at any time. Price \$11.00.

No. 33.—The wheel hoe part of the No. 31 Combined Drill and Single Wheel Hoe. A cheap and durable tool for the small garden. Price \$7.00.

PLANET JR. NO. 60 DOUBLE WHEEL ONION HOE.—This is a departure from all previous wheel hoes. Compact and strong, the arch carrying the hoes is adjustable, eliminating the necessity of tool frames generally found on other types. Can be widened to work any width of row, and by raising or lowering the hoes will be suitable for any size person. The adjustable arch is not found in the other tools. Price \$8.00.

PLANET JR. STAR PULVERIZER, LEVELER AND WEEDER.—This new tool is especially adapted for preparing the seed bed, and will be found of great value in smoothing and fining the soil surface. The rear blade is 13½ inches wide. After the crops are started, it may be used between the rows as a weeder or as a crust breaker. If used frequently it is easy to operate and will keep the plot clean and mellow. Price \$7.00.

PULVERIZER AND WEEDER

PLANET JR. NO. 12 DOUBLE WHEEL HOE.—A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price \$13.00.

NO. 13 Double Wheel Hoe, with one pair of six inch hoes only, price \$9.50.

PLANET JR. NO. 12 DOUBLE-WHEEL HOE price \$9.50.

PLANET JR. NO. 16 SINGLE WHEEL HOE. (Price \$10.50.)

These single wheel hoes are the highest type of their class, and are popular with all gardeners for all kinds of cultivating. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos. 16 and 17 have the same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested by practical men; no others ever offered compared with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm.

PLANET JR. NO. 17 SINGLE WHEEL HOE.—Same as No. 16, but has no rakes or leaf guards. Price \$9.50.

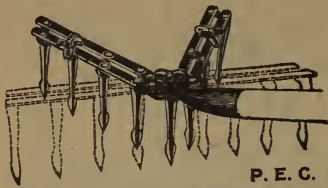
PLANET JR. NO. 8 COMBINED HORSE HOE AND CULTIVATOR.—No other cultivating machine is so widely known, for it is in use throughout the civilized world. So strongly built as to withstand incredible strain, yet light and easy to handle. Opens and closes furrows, hoes right up to the plants without danger of injury. Cultivates any depth desired, and adjusts for any width. The teeth, made of beveled steel, specially hardened, retain their cutting shape and outwear anything made. Price \$21.00.

PLANET JR. NO. 8 HORSE HOE

PLANET JR. NO. 90 TWELVE TOOTH HARROW AND PULVERIZER. Price \$21.00. No. 90-B (less pulverizer) \$17.00. The chisel-shaped teeth on this tool go as deep or shallow as you like, close to row, without injuring plants, cut out all weeds, stir the soil and mellow and fine it as with a garden rake. Any width from 12 to 32 in. The wheel won't clog; the pulverizer leaves the ground in perfect condition for seeding or plant setting.

PLANET JR. TWELVE-TOOTH HARROW

YOU WORK AT COSTLY DISADVANTAGE IN THE GARDEN IF YOU DO NOT HAVE GOOD TOOLS TO PLANT AND CULTIVATE.



P. E. C.

PULL EASY GARDEN TOOLS

A line of adjustable hand tools very effective and low in price.

CULTIVATOR HOE NO. PE5.—Adjustable 6 in. to 12 in. wide. Five prongs each nine inches long. Sturdy 4 ft. handle. The long grasping teeth cultivate deeply and thoroughly. Instantly adjustable by loosening two broad winged thumb nuts, tightening the nuts. Tooth points concaved for scouring. Middle tooth removable. Price each \$1.25. Mailing weight.

CULTIVATOR RAKE NO. PEC.—Adjustable 6 in. to 18 in. wide, nine teeth. All steel parts enameled royal blue. French polished handle 4½ ft. long. Middle tooth removable for cultivating rows of small plants on both sides at the same time. Better than a rake for preparing the soil or for cultivating. Price each \$1.50. Cannot mail.

PULL EASY DANDELION RAKE.—Wedge-shaped teeth, gather in leaves and stems of dandelions, stripping them from lawn. Backward stroke cleans rake instantly. Wonderfully popular. Will rid a lawn of leaves and dead grass, 16-gauge, high-carbon steel—18 inches wide, unbreakable teeth. Price 90c. Cannot mail.

DIBBER.—Steel pointed for transplanting vegetable plants. Each, by parcel post, 42c; by express, 35c.

EUREKA SEED DRILL.—A small hand drill for vegetable seeds in beds. Gardeners will like it for sowing seeds in hot-beds. By express, \$1.25. Weight 3 lbs.

DANDELION DIGGERS.—Straight, chisel-like bladed tool with notched cutting knife. Each 20c.

FLORIST TROWELS.—Extra heavy and durable. Best made. By parcel post, each 50c; by express, each 40c.



THE
CYCLONE
SEED SOWER

THE SOWER THAT
SCATTERS EVENLY

and corn equal to any corn planter. See cut. Price \$2.25.

EXCELSIOR WEEDING HOOK.—Can be used to advantage among small and tender plants. By parcel post each 20c, doz. \$2; by exp. 15c, doz. \$1.75.

BLUE GRASS STRIPPERS.—For gathering seeds. Ea. by exp. \$2.50. Mailing wt. 4 lbs.

GARDEN TROWELS.—By parcel post 5-in. 20c; 6-in. 25c. By express 5-in. 15c, 6-in. 20c

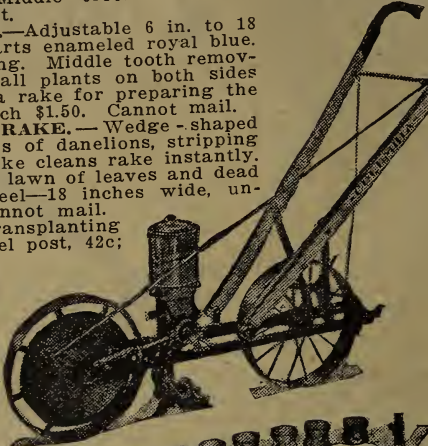
LANG'S
HAND
WEEDER

HANDIEST
TOOL

ON EARTH.



P. E. 5



COLUMBIA GARDEN DRILL

CYCLONE SEED SOWER.—Farmers should have a small hand seed sower for emergency use. This is an improved style, strong, well made and durable. It is very easy to understand and easy to operate. Directions with each machine. By express \$2.50. Mailing weight 4 lbs.

EUREKA POTATO PLANTER.—The best hand potato planter that we know of as it does the work perfectly. Also plants beans

and corn equal to any corn planter. See cut. Price \$2.25.

EXCELSIOR WEEDING HOOK.—Can be used to advantage among small and tender plants. By parcel post each 20c, doz. \$2; by exp. 15c, doz. \$1.75.

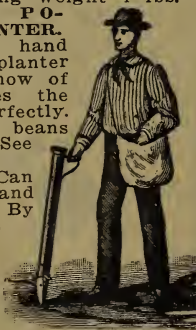
BLUE GRASS STRIPPERS.—For gathering seeds. Ea. by exp. \$2.50. Mailing wt. 4 lbs.

GARDEN TROWELS.—By parcel post 5-in. 20c; 6-in. 25c. By express 5-in. 15c, 6-in. 20c

LANG'S
HAND
WEEDER

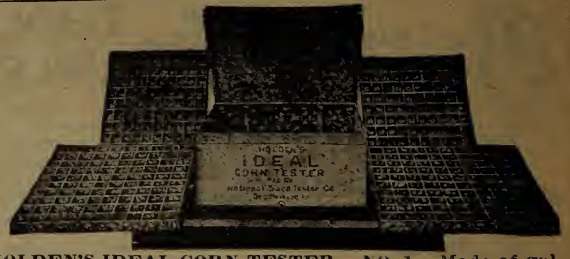
HANDIEST
TOOL

ON EARTH.



EUREKA POTATO PLANTER

LANG'S HAND WEEDER.—Is in our opinion the best; its special feature a band which passes over the fingers, which, when the tool is not in use, gives full use of the hand for pulling weeds and thinning out plants without laying down the tool. Price 30c each, postpaid. By express, per dozen \$2.50.



HOLDEN'S IDEAL CORN TESTER.—NO. 1.—Made of galvanized iron as per pattern shown in the illustration. It is for testing ears of seed corn before shelling for seed. Capacity of this size 400 ears (one to each compartment) and each compartment is removable at will. It is quite simple in operation and full directions for use will be sent with each tester. By express or freight, not prepaid, \$13.00.

HOLDEN'S IDEAL CORN TESTER.—NO. 2.—A cabinet tester with capacity for 400 tests at one time. By express or freight, each \$22.00.

NO. 4.—A single box tester of galvanized iron; capacity 200 tests. By express or freight, each \$7.00.

COLUMBIA GARDEN DRILL

The Columbia Garden Drill we consider one of the most perfect machines in the market for planting all kinds of seeds. It is not only adaptable to all kinds of vegetable seeds, but can also be used for planting seed grain or forage crops. It is popular with gardeners and around Des Moines is given preference. It is not a cultivator, but is a first-class seeder.

NO. 10.—Like illustration. Strong, durable, simple and performs the work splendidly. Price each \$25.00.

NO. 11.—Is exactly like No. 10, but has fertilizer attachments. One who has not used fertilizer in the drill when planting cannot realize the tremendous advantage gained in earliness and strong growth.

Price each \$27.00.

SEGMENT HAND CORN PLANTER.—Operated with one hand. An immense amount of ground can be planted in one day. Drops as fast as you can walk, and you make it drop where you want it. Open drop by simply bending the planter forward thus pressing the spring which controls the hopper opening and permits the corn to fall through. You can also plant beans or peas and it drops pumpkin seed by a simple operation without interfering with the corn planting. Price, each, by express, \$2.00. Mailing weight 4 lbs.

SEGMENT CORN PLANTER

STAR CORN SHELLER.—A fine sheller for hand use. Has attachment for shelling tips and butts separately, making it desirable in saving seed corn. We also sell an extra attachment for shelling pop corn. Can be fastened on a box and has reversible chute which throws cobs out at the rear away from the shelled corn. Strong, well made, and will last a lifetime. At our very low price, we consider it the best hand sheller on the market. Each, by express \$2.50, wt. 12 lbs.

PLANTER PATENT SEED CORN GRADER.—Single Sieve. A sieve grader 12x18 in. in size with screen of heavy galvanized iron and mesh especially suited to grading seed corn before planting. A cheap, quick and effective method of eliminating tip and butt grains and preparing seed for edge dropping. Each by express, \$1.00. Mailing weight 3 lbs.

Double Sieve.—Like above, with two sieves attached. Each, by express, \$1.25. Mailing weight 5 lbs.

SEED CORN GRADER

POULTRY SUPPLIES



PLYMOUTH ROCK CHICK FOOD.—This food has been prepared with the idea of supplying a perfectly balanced ration for young chicks. It has been demonstrated that young chicks do much better on our especially prepared feed than on any moist or soft food that can be obtained. The food is composed of various kinds of grains, bone and other nutritive foods, making it the most complete and cleanest

chick food on the market. Per 25-lb. bag \$1.00. See red ink price list.

PLYMOUTH ROCK HEN FOOD.—In the preparation of this food we have had in mind the production of the best food that could be made for laying hens and the keeping of all fowls healthy. Price, 25 lbs. \$1.00.

PLYMOUTH ROCK EGG MASH.—Contains bran, shorts, alfalfa meal, meat scraps, kaffir meal and other ground grain of best quality. Made after a formula from Ames College for laying hens. 25 lbs. \$1.25; 100 lbs. \$4.00. See red ink price list.

GROUND MEAT SCRAPS.—Fresh beef thoroughly cooked and dried; excellent food for young chicks or laying hens. 10 lbs. 90c, 25 lbs. \$2.00.



CRUSHED RAW BONE.—Really better than clam shell, but will pay to use both. Best quality, made from fresh bones. 10 lbs. 75c, 25 lbs. \$1.50. See red ink list.

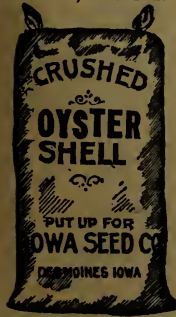
RAW BONE MEAL.—Ground fine for feeding small chickens; also used as a lawn fertilizer. Price, 10 lbs. 75c, 25 lbs. \$1.50. Ask for price.

ALFALFA CLOVER MEAL.—An excellent preparation of alfalfa containing a large amount of digestible protein, especially adapted to be fed with a mash food. Valuable as a winter food. Price, 25 lbs. 90c. See red ink list.

PEARL GRIT.—No better grit can be found for poultry. Sharp and wears sharp. Per 25 lbs. 50c, 100 lbs. \$1.50.

PEARL CHICK GRIT.—A small grit which is a necessity when raising young chickens. Per 25 lbs. 50c, 100 lbs. \$1.50. See red ink price list.

CRUSHED OYSTER SHELL.—A most important article for the poultry yard and should be supplied liberally. Superior quality. Hens will keep healthier, lay better, and eggs will be more fertile if supplied with it. 10 lbs. 35c, 25 lbs. 75c, 100 lbs. \$2.00. Ask for prices.



CONKEY'S BUTTERMILK STARTING FOOD.—A prepared ground feed for baby chicks and young growing fowls. 2½ lb. pkg. 35c, 5 lbs. 55c, 10 lbs. \$1.00, 25 lbs. \$2.50. Ask for quantity price.

CHARCOAL.—Granulated to right size. The large poultry size is also suitable for hogs. Two sizes, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. \$1.25, 50 lb. bag \$2.25, 5 bags at \$2.00 per bag.

CONKEY'S ROUP CURE.—An excellent remedy that has been thoroughly tried and has given excellent satisfaction. Trial size 30c, regular size 60c, large size \$1.20, postpaid.

CONKEY'S CHOLERA CURE.—We consider this the most dependable cholera cure known. Used for cholera, indigestion, bowel trouble, diarrhoea and kindred diseases. Trial size 30c, regular size 60c, postpaid.

CONKEY'S POULTRY TONIC.—A splendid item for laying hens, and beneficial to all poultry. By exp. 24 oz. pkg. 30c, 3½ lb. pkg. 60c, 12 lb. pail, \$1.60.

CONKEY'S LICE POWDER.—One of the most perfect lice killers. Also good for fleas on dogs and other animals. By express, 1 lb. pkg. 30c, 3 lb. pkg. 60c, 12 lb. pail \$1.60.

CONKEY'S LICE LIQUID.—For painting roosts, nest boxes, coops and houses. Kills lice and mites. By express, qt. 60c, ½ gal. 90c, gal. \$1.50.

CONKEY'S NOXIDE.—A liquid disinfectant and deodorizer for use in spraying poultry houses. Destroys the germs and can be used in diluted form as a dip. By express, pint 50c; qt. 75c; 2-qt. \$1.25; gallon \$2.00.



ANDERSON EGG CASES.—Like picture but shipped in flat, saving freight or express charges. We recommend them. Price, 15-egg size \$2.25 per doz., 30-egg \$3.50 per doz., 50-egg \$7.00 per doz. Mailing weight, 15-egg size, 1 lb.; 30-egg size, 2 lbs.; 50-egg 3 lbs. each.

LIVE CHICK BOX.—Made from corrugated paper with ventilating holes in top and sides; for shipping small, live chicks. 25-chick size \$2.25 per doz., 50-chick size \$3.00 per doz., 100-chick size \$4.50 per doz. Mailing weight, 25 size, 2 lbs.; 50 size, 4 lbs.; 100 size, 6 lbs.

CLIMAX BASKETS.—Are desirable for shipping eggs for setting; will hold two settings of Leghorns, etc., or one of Asiatic. Price per 10, \$1.00; 50 for \$4.00, 100 for \$7.00. Weight 1 lb. each.

GLASS NEST EGGS.—By mail in regular Ship-safe egg case, which may be used to ship eggs for hatching, 12 for 95c; 50 for \$2.25, postpaid.

WOLF'S GERMITE.—In liquid or tablet form. For use in the drinking water of fowls to cure roup and other ailments of poultry. Liquid, per bottle, 75c; tablets per box 75c.

WOLF'S VERMITE.—A powder lice killer for destroying vermin on fowls. One lb. pkg. 35c.

CONKEY'S FLY KNOCKER.—A liquid that kills all flies and insects it strikes, and drives others away. Stock when sprayed with Fly Knocker will not be troubled with insects while feeding. By express qt. 75c, ½ gal. \$1.25, gal. \$2.00.

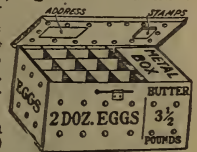


Prices are subject to important market changes. Transportation to be paid by purchaser except where marked postpaid. In sending postage for items which you want to come by parcel post, be sure to add 1 pound to stated weight of package goods.

METAL PARCEL POST EGG CRATE.—Made of aluminum, light and durable.

Can be used many times. 16 to 24 cents pays postage both ways on two to six dozen eggs. Add 7c for postage on each crate.

Size Each
Two dozen ... \$1.00
Three dozen ... 1.25
Four dozen ... 1.50
Six dozen ... 1.75



A complete set of supplies furnished with each crate. Set consists of filters, slip papers, 100 wrappers for eggs and two address cards. Price per set for six dozen size 60c, other sizes 50c. State size of crate in ordering supplies.

WIRE HEN'S NESTS.—These nests are strongly made from heavy wire and will last a lifetime. There is no room on them for lice to find a lodging place, and they are easily kept clean. Each 20c, ½ doz. \$1.00, doz. \$1.75, not prepaid.

LEE'S GERMOZONE.—A liquid to be given in the drinking water of fowls. It will cure cholera, roup and nearly all poultry diseases. By exp. 75c, Mailing wt. 2 lbs.

GERMOZONE TABLETS.—Lee's Germozone in the form of small tablets to be dissolved in drinking water of the fowls. Per box of 75 tablets, making 1 tablet to a quart of water, postpaid, 75c.

LEE'S LICE KILLER.—A liquid that will eradicate lice, mites and chiggers, by applying to roost and nest boxes. It is now considered the standard liquid lice killer. By exp., qt. 50c, ½ gal. 75c, gal. \$1.25. Can't mail.

LEE'S EGG MAKER.—Sold under a manufacturer's guarantee to make hens lay. Foundation is granulated blood, deodorized. By exp. 2½ lb. pkg. 35c, 5 lbs. 75c. Add postage if by parcel post.

LEE'S LOUSE POWDER.—Use on fowls, in nests, and among the litter. Has sprinkler top to the can. By express, 20 oz. pkg. 25c, 3 lb. pkg. 50c.

KEY RING LEG BANDS.—Made of celluloid in six sizes and ten colors. Spread easily to put on leg of fowl. Have no sharp edges and are easy on the fowl's legs. Sizes: Asiatic, American, Mediterranean, Bantam, Pigeon and Baby Chick. Specify number of each color wanted. Prices, 3 largest sizes, per doz. 15c, 100 \$1.00, postpaid; 3 small sizes, dozen 10c, 100 75c, postpaid.



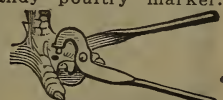
LEADER LEG BAND—No. 2.—An adjustable band which can be used for any sized fowl from a bantam to a turkey. Made of aluminum, light and smooth. Doz. 20c, 100 \$1.00, postpaid, 500, not prepaid, \$4.00.

LEADER LEG BAND—No. 1.—For bantams and smaller breeds. Doz. 20c, 100 75c, postpaid; 500, not prepaid, \$3.00.

PHILADELPHIA POULTRY MARKER.—A convenient little spring punch for marking chickens. Marks small hole in web of the foot. 40c each, postpaid.

PILLING LANSOWNE POULTRY MARKER.—A handy poultry marker. Look at the illustration and see how easy it is to use. Large or small size sent postpaid for 40c.

ANTISEPTIC NEST EGGS.—Keeps vermin from nests and causes them to leave fowls. By express, per doz. 60c.



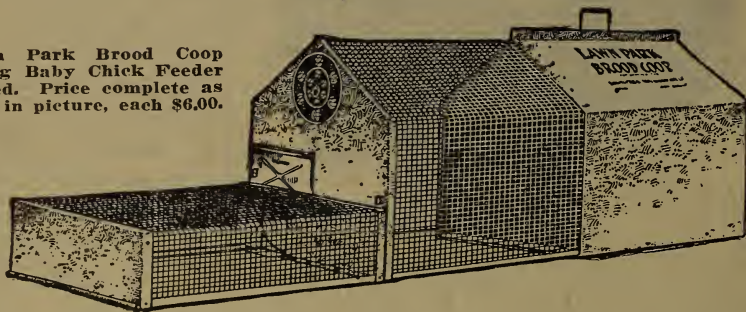
WE WILL BE PLEASED TO QUOTE YOU SPECIAL PRICES ON LARGE ORDERS OF POULTRY SUPPLIES OR FEED ITEMS.



BANNER POULTRY FENCE.—Made of heavy No. 17 galvanized wire with small square mesh at bottom, ranging larger at top. Strong and durable. Small chicks cannot get through and it will turn dogs and small animals. Put up in rolls of ten rods length.

Width	Cut Rolls Per 10 Ft.	Full Roll	Five Rolls
18-inch	\$.35	\$4.05	\$20.00
24-inch .....	.40	5.00	24.00
36-inch .....	.50	6.25	28.00
48-inch .....	.60	7.50	34.00
60-inch .....	.70	8.75	42.00
72-inch .....	.80	10.00	45.00

Lawn Park Brood Coop showing Baby Chick Feeder attached. Price complete as shown in picture, each \$6.00.



LAWN PARK BROOD COOP.—An all metal coop as shown in illustration. Size of coop 18 in. wide, 24 in. long, 19½ in. high, while the wire park is practically the same size. The pen telescopes into the coop portion if desired and has a handle by which it is moved. Each \$5.00, dozen \$55.00.

IOWA SHIPPING COOPS.—All wood. Sides and end pieces nailed together with cleats so that coops are readily made in using form. As shown by cut coops are ventilated front and back and top is covered with slats, giving thorough ventilation. Cleats around upper and lower end make it easy to handle.

Dimensions	Weight	½ doz.	1 doz.
No. 1—18x12x13 in.	6 lbs.	\$2.00	\$7.20
No. 3—18x20x13 in.	10 lbs.	2.75	10.50
No. 5—30x20x13 in.	14 lbs.	3.75	14.25



IOWA SHIPPING COOP.

POULTRY NETTING

We can supply both the hexagon mesh of the pattern shown in the illustration and also the square mesh at same price. The best make; thoroughly galvanized before weaving, to prevent rusting, and properly twisted. Prices are subject to important market changes: Made of No. 19 wire and 2-inch mesh; put up in rolls 150 feet in length.

Width Inches	Per Roll	Width Inches	Per Roll
12	\$ 2.00	36	\$ 5.00
18	3.00	48	7.00
24	4.00	60	8.50
30	4.50	72	10.00

One-inch mesh, No. 20 wire, for young chicks and Belgian hares.

Will allow 5 per cent discount on lots of 5 rolls or more. Cut rolls, any width, 2-inch mesh, 2c per sq. ft; 1-inch mesh, any width, 4c per sq. ft.

GALVANIZED STAPLES.—For fastening wire poultry netting, 15c per lb.

BURLINGTON BROOD COOP.—Round metal coop, made of galvanized iron, with sliding door which can be fastened open at desired size. Adjustable top for ventilation. Rat, mink, weasel, mite and rain proof. Owing to present high values of galvanized iron, price is higher than in former seasons. Size 22 in. diameter, 29 in. high. Each \$3.35, 6 for \$17.00, dozen \$33.00.

LAWN PARK BABY CHICK FEEDER.—A wire pen attachment for the Lawn Park Brood Coop as shown in illustration above. Can also be used alone. Little chicks can feed without interference from older fowls. Size 18 x24 inches. Price, feeder only each \$2.00; doz, \$22.00. See details above.

SANITARY DETACHABLE FOUNTAIN.

Made of stone-ware; the chicks can drink all around. Is easily cleaned. Can ship by freight or express only. One quart 75c, doz. \$7.00; 2-qt. 85c, dozen \$8.00; gal. 90c, dozen \$9.00; 2-gallon \$1.50, doz. \$15.00.

HEN FRIEND DRINKING FOUNTAIN.

Galvanized iron. Is easily handled. Exp. 2-qt. size each 60c; 5-qt. each 90c; 10-qt. each \$1.10. Mailing weights: 2-qt., 1 lb.; 5-qt., 2 lbs., 10-qt., 3 lbs.



BUFF PLYMOUTH ROCK

EGGS FOR HATCHING

If 15 chicken eggs are wanted for a setting, add 40c to price quoted. Order now and state time of delivery wanted.

We are prepared this season to supply eggs for hatching from choice thoroughbred stock of leading varieties. They are superior egg-laying strains.

BARRED PLYMOUTH ROCKS.—The farmer's favorite. From large, well-marked stock. Setting of 13 eggs \$2.00.

WHITE PLYMOUTH ROCKS.—Great egg producers and very early to mature. Our stock is pure white. Price per setting of 13 eggs \$2.00.

BUFF PLYMOUTH ROCKS.—Becoming very popular as a general purpose fowl. Per setting of 13 eggs \$2.25.

WHITE WYANDOTTES.—Rapidly becoming favorites. They are great layers, mature early and are pure white. Price per setting of 13 eggs \$2.25.

SILVER-LACED WYANDOTTES.—Most popular of Wyandotte class. Per setting of 13 eggs \$2.25.

BLACK LANGSHANS.—Very satisfactory for general purposes. Per setting of 13 eggs \$2.25.

BROWN LEGHORNS.—The greatest of all layers. Our stock is from one of the best laying strains in the country. Price per setting of 13 eggs \$2.00.

SINGLE COMB WHITE LEGHORNS.—Beautiful and profitable variety. Per setting of 13 eggs \$2.00.

LIGHT BRAHMAS.—High scoring stock. Per setting of 13 eggs \$2.50.

RHODE ISLAND REDS.—Single or Rose Comb as preferred. Per setting of 13 eggs \$2.25.

BUFF ORPINGTONS.—Large, handsome fowls. Per setting of 13 eggs \$2.50.

WHITE ORPINGTONS.—Most popular breed among fanciers. Our stock is a fancy strain. Setting of 13 eggs \$2.50.

BRONZE TURKEYS.—Usually scarce, but we hope to have a good supply this season. Setting of nine eggs \$5.00.

MAMMOTH WHITE PEKIN DUCKS.—Per setting of 12 eggs \$2.50.

EGGS FOR INCUBATORS.—Write us for prices, stating the number of eggs you will want and breed.

BREEDING STOCK.—A few choice cockerels and pullets at reasonable prices. Write for what you want.

BELGIAN HARES.—For many years this breed was considered the best market breed of rabbits. The fur is also valuable. Price per pair \$5.00.

WHITE ENGLISH RABBITS.—Fine for pets for children, also good for food. Price per pair \$3.50.

NEW ZEALAND REDS.—Considered by many to be the best utility and fancy rabbits. Matures quickly and meat is of superior quality. Price per pair \$5.00.

GUINEA PIGS.—Have a fine stock of assorted colors at most seasons of the year. Price per pair \$3.00.

For sprouting oats or other grain for poultry. Made	
entirely of galvanized steel in sections as shown in	
illustration. Each section holds 24 trays for grain.	
Sections are interchangeable and sprouter may be	
priced by additional sections as needed. Five sizes.	
No. 1—Base and 1 Section, wt. 50 lbs.—2 trays, & Price	
holds 8-10 qts. dry grain (30 to 60 hens).....	\$ 12.50
No. 2—Base and 2 Sections, wt. 70 lbs.—4 trays,	
holds 16-20 qts. dry grain (75 to 100 hens)...	15.75
No. 3—Base and 3 Sections, wt. 85 lbs.—6 trays,	
holds 24-30 qts. dry grain (130 to 200 hens)...	20.00
No. 4—Base and 4 Sections, wt. 100 lbs.—8 trays,	
holds 32-40 qts. dry grain (250 to 300 hens)...	24.00
No. 5—Base and 5 Sections, wt. 115 lbs.—10 trays,	
holds 40-50 qts. dry grain (400 to 600 hens)...	28.00
Each additional Section and 2 galvanized all-	
steel trays, wt. 20 lbs.....	5.75



In changing our line of Incubators this year we have chosen the Reliable, because it has 38 years history and it stands at the head of the line in the estimation of experienced poultrymen.. Complete descriptive catalogue of Reliable Incubators free.

No. 49a—100 eggs, Hot Air.....	\$23.70
No. 50a—100 eggs, Hot Water	29.70
No. 51—140 eggs, Hot Air.....	32.70
No. 52—140 eggs, Hot Water.....	39.00
No. 53—240 eggs, Hot Air.....	45.00
No. 54—240 eggs, Hot Water.....	54.00

Ask for prices on larger sizes.

Ask for prices on larger sizes.

All metal, compact and convenient. Body painted green with steel gray top, nicely finished. Solid and well made and will last a lifetime. Body is galvanized steel, heating system 14 oz. copper, pressed steel lamp. Has a glass disc in top through which eggs can be seen without opening the machine. Uses hot water heat with good ventilation, which provides for plenty of moisture and the circular radiator provides even distribution of heat.

50 Egg Size, complete.....	\$25.00
100 Egg Size, complete.....	36.00



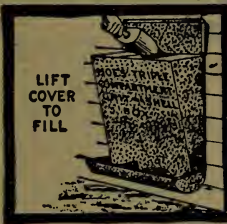
Burns Kerosene, and is moveable.
Made by Reliable Incubator Co.

No. 00—18 in., 100 chicks.....	\$10.00
No. 0—30 in., 350 chicks.....	18.15
No. 1—42 in., 500 chicks.....	20.35
No. 2—60 in., 1,000 chicks.....	24.20

Simplicity Incubators
"HAVE NO COLD CORNERS"



TOP FILL FOUNTAIN



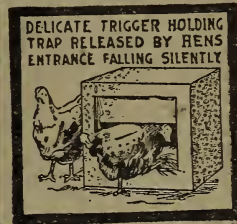
GRIT AND SHELL BOX



SANITARY FEED TROUGH



DRY FEED HOPPER.



TRAP NESTS

MOE'S TOP FILL FOUNTAIN.—Won't stop over. Dead air space keeps water cool in summer, warm in winter. Simple in construction. Remove cover and fill from top. Water ceases to flow when cover is removed. By express, 1-gal. \$2.00; 2-gal. \$2.85; 4-gal. \$3.75. Mailing weights: 1-gal. 3 lbs.; 2-gal. 5 lbs.; 4-gal. 10 lbs.

MOE'S DRY FOOD HOPPER.—As shown by illustration, this hopper is devised to permit fowls access to the feed without scattering or wasting. Two sizes, No. 35 \$1.90; No. 36, \$2.50. Mailing weights: No. 35, 3 lbs; No. 36, 5 lbs.



TO SNAP ON
A MASON JAR

MOE'S GRIT AND SHELL BOX.—Has three compartments for grit, shell and charcoal; galvanized iron. Can be used as feed hopper for small chicks; ½ pk. By express \$1.35. Wt. 4 lbs.

MOE'S TRAP NEST.—Made of galvanized iron in two sizes. Principle shown in cut. Price, No. 33, for Mediterranean breeds, size 12x12x12, each \$1.65; No. 34, for larger breeds, size 12x12x14, each \$2.30. Mailing wts.; No. 33, 5 lbs.; No. 34, 6 lbs. Fronts only for fastening to ordinary nest boxes, each 60c.

BONE CUTTERS AND MILLS

HUMPHREY'S GREEN BONE AND VEGETABLE CUTTER.—One of the leading bone cutters. Be sure and investigate this before you purchase. Manufacturer's guarantee with each cutter sold. No. 1 cutter, \$20.00; No. 2½, semi-power, \$25.00; No. 2, all-power cutters, each \$25.00.

**HUMPHREY'S RAPID CLOVER CUT-
TER.**—For cutting clover, alfalfa, etc.,
which are essential foods for poultry.
Strong and durable, with five cutting
knives and double-edge stationary
knife which is reversible. Each \$20.00.

CROWN BONE CUTTERS.—No. 1.—Weighs 50 lbs.; is to be bolted to bench or table for operation. Each \$20.00.

No. 2.—Same as above, but has a tripod metal stand upon which cutter is fastened. Wt. 80 lbs. Each \$24.00.

MODEL GRINDING MILL.—To grind shell, grit, bone, and grains. Easily adjusted to grind coarse or fine as desired. No. 1, each \$3.50. No 2, each \$6.00.

STAR FOUNTAIN.—Made for Mason jar, like Northwestern, but it is star-shaped. Not so much water is exposed, and fowls cannot pollute it while drinking. Ea. 20c, postpaid. By exp., doz. \$1.50.

MOE'S SANITARY FEED TROUGH.
—Can be used for feed, mash or water.
Barred top prevents waste. Made of
galvanized iron. By exp. No. 21, 12 in.
long, each 65c; No. 22, 18 in. 90c. No.
23, 24 in., \$1.25. Mailing weights:
No. 21, 1 lb.; No. 22, 2 lbs.; No.
23, 4 lbs.

O. K. AUTOMATIC FEEDERS.
—As shown in our illustration.
No. 1. has capacity of $\frac{1}{2}$ bu. with

No. 1, has capacity of $\frac{1}{2}$ bu., with stand, each \$4.00. No. 2, capacity 1 bu., with stand, each \$4.25.

APACO AUTOMATIC FEEDER.—Similar in style to the O. K. machine illustrated here, except that it has no legs and is to be suspended from hook or nail. Capacity 12 qts. of grain. Each, only \$1.50. dozen \$15.00.



O. K. AUTOMATIC FEEDER

OUR TALKING
PET

PARROTS

GUARANTEED TALKERS

A bird that talks has a wonderful charm. Below we offer young, tame, hand raised parrots guaranteed to learn to talk within six months. Birds ready to ship in early summer. Order early.

ROYAL AZTEC DOUBLE YELLOW HEADS.—Our very finest talking strain, unsurpassed as imitators of the human voice. They are superior to all other American parrots and make most fluent talkers. Price \$15.00 during summer but usually higher after Aug. 15.

MEXICAN DOUBLE YELLOW HEADS.—Good birds guaranteed as above and second only to the Royal Aztecs. Price \$12.50 during the summer.

MEXICAN RED HEAD PARROTS.—Medium size, make nice talkers and great pets. Young birds ready in June. Price \$7.50 each during June and July.

PANAMA PARROTS.—Large, green parrots, very fluent talking species. Usually in stock entire year. Price, \$25.00 each.

WE WILL BUY YOUR PETS

If you have any Canaries, Parrots, Macaws, Cockatoos, Guinea Pigs, Monkeys, or any household pets which you would like to dispose of write us giving full particulars first letter.

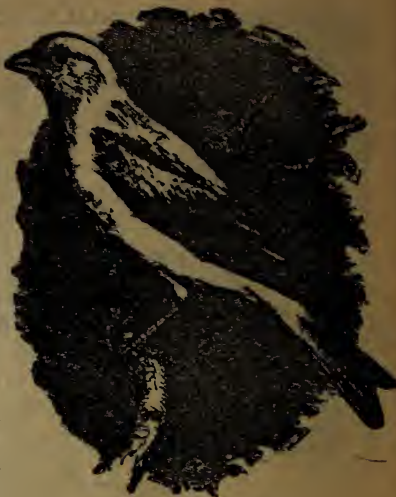
BIRDS

"Little Dewdrops of Celestial Melody."

The companionship of a bird has brightened the life of many a tired, over-worked mother on whom the daily cares and burdens rested heavily. The music of a good singer makes the whole house more cheerful and every member of the family enjoys the pure, clear notes of a happy little song bird. The superior quality of our selected canaries will please the most critical. We handle thousands of birds annually and have the largest mail order business in America. Ask for illustrated price list. Express charges are to be paid by purchaser on goods on this page except where stated. Descriptive list free.

HARTZ MOUNTAIN CANARIES.—These birds are American raised from Hartz Mountain birds, and are famous for their clear, pure, beautiful song—a restful melody. Because their voice is just as nature gave it—unchanged by any training—we call them Nature's Solo Singer, to distinguish them from the trained bird below. These are the finest singers ever offered at the price. Males, guaranteed good singers, each \$10.00.

FEMALE CANARIES.—Hartz females \$2.00 and \$2.50 each. Roller females \$3.00 each. Order between September 1st and April 15th.



HARTZ MOUNTAIN CANARY

CHORUS LEADERS.—These birds are trained singers. Their tones are sweet, round and full, consisting of delightful bell notes, low water bubble, charming flute notes and long, silvery trills. Their most restful music continually surprises by its many changes. They are scarce and difficult to obtain. Male birds, guaranteed good singers. Each \$15.00.

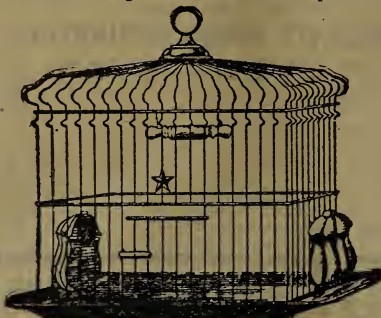
OTHER BIRDS.—We have in stock, in season, English Norwich Canaries, Goldfinches, Linnets, Yorkshire Canaries, Java Sparrows, Dwarf Paroquets, Cockatoos and Cockateel, Scarlet and Green Macaws and many other interesting birds. If you want any of these or other birds not mentioned in this catalogue, please write. Bird Price List free.

ROUND PARROT CAGES.—Tinned wire, durable, and very satisfactory. 14-in. \$7.00; 16-in. \$8.50; 18-in. \$10.50.

CANARY BREEDING AND TRAINING.—By Chas. N. Page. Tells the whole story. Explains in detail the necessary care of the canary as a songster. 80 pages. Paper 25c cloth 75c.

FEATHERED PETS.—By Chas. N. Page. Describes and tells how to care for birds that can be successfully kept in captivity. 144 pp. Cloth 75c; paper 35c.

PARROT BOOK.—Describes different kinds, tells how to treat when sick, how to train and care for young parrots. Paper 25c; cloth 75c, postpaid.



IMPROVED BRASS CAGE

IMPROVED BRASS CAGES.—(Like cut.)—6x9 \$4.00; 7x10 \$5.25; 8½x11½ \$6.00.

IDEAL BRASS CAGE.—Like cut but has brass screen around lower part. Size 6x9 \$5.25; 7x10 \$6.50.

BREEDING CAGES.—Wood frame. Single compartment: 17 in. long \$3.00; 19 in. \$3.85; 21 in. \$4.75. Double: 19 in. \$3.90; 21 in. \$5.00.

WIRE NESTS.—15c each. Postage on one to three nests 4c extra.

TOY BELLS.—For birds, 7c, postpaid.

BIRD SEED

Add postage if to go by parcel post. Prices subject to market changes.

But few persons are aware how much a bird's health, and consequently its song, depends upon feeding strictly fresh seed properly mixed and of good quality. As you value the life of your bird, feed only our fresh seed.

SUPERIOR MIXED BIRD SEED.—Per lb. 20c.

GERMAN SUMMER RAPE.—Fed very largely to trained canaries. Price 20c per lb.

SICILY CANARY.—Price 20c per lb.

MAMMOTH RUSSIAN SUNFLOWER.

—Price 20c per lb.

MIXED PARROT SEED.—Same price.

PARROT Dainties.—Per pkg. 25c.

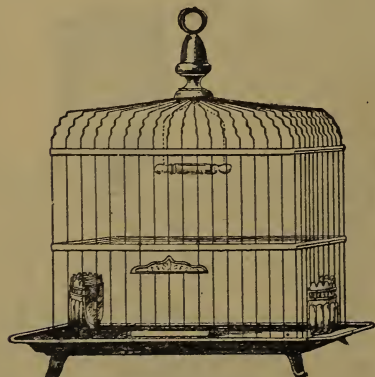
PARROT BELLS.—Each 12c, postpaid.

BIRD HEALTH.—A preparation of our own which will keep birds in good condition at all times. It relieves colds and cures obscure ailments after other remedies fail. Restores the voice and invigorates the system. Price per 2 oz. box 18c, postpaid. Three boxes for 50c.

CUTTLE BONE.—10c each, postpaid.

PREPARED MOCKING BIRD FOOD.

—Best food on the market for all soft billed birds. Can 60c., wt. about 2 lbs.



JAPANNED OR PAINTED CAGE.—Best cage on the market for the money. It is neat, durable and convenient.

No.	Size	Wt.	Price
165H	6½x9½	in....4 lbs.	\$2.75
167H	7½x11	in....5 lbs.	3.25
168H	8½x12½	in....5 lbs.	3.75



CLIMAX CANARY CAGE

Very popular style. Neatly japanned, has screen to prevent scattering of the seed. Diameter 11 inches, total height 17½ inches. Shipping weight 6 lbs. Price, by express, each \$6.25.

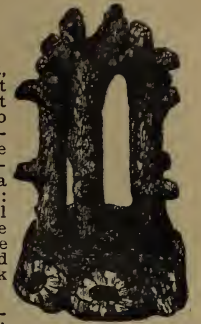
GOLDFISH.

BEAUTIFUL; EASY TO KEEP; WE TELL YOU HOW.

Did you ever own a globe of Goldfish? You admire them, no doubt, for their pretty form, exquisite coloring and graceful movements, but if you have never kept fish, you cannot realize how your interest grows as you become more familiar with them. They are not hard to keep; just follow our plain printed directions sent free with each Goldfish order and you can hardly fail to succeed. Goldfish are kept quite generally in city and town and there seems no reason why our customers in the country should not share just as fully in the pleasure a nice aquarium affords. Be the first in your locality to get an outfit: you will find all the neighbors interested and their admiration will add to your enjoyment of the fish. We ship Goldfish any time of the year, but buy early in the season while it is still cool weather because this is favorable for the fish. All items in this department are shipped at customer's expense for transportation unless otherwise stated. Ask for free Aquaria Price List.



GLASS FISH GLOBE



AQUARIA CASTLE

GOLD FISH.—While there are many varieties of gold fish as named and described in this list, we refer only to the plain variety by this name. These are more popular than the fancy sorts, being low priced and generally satisfactory. They are a species of carp, originally inhabiting ponds and sluggish streams in China, and they are better adapted to life in fish globes than any other breed of fish. They are universal favorites, of golden red color. Those bred in this state seem to have a peculiar brilliancy of coloring which is especially noticeable when in the fish globes. Prices, 15c, 25c, 35c, 50c and \$1.00 each, according to size. The 25c size (5 for \$1.00) is the most popular. The largest size is only suitable for ponds or fountains.

SILVER FISH.—This is simply an uncolored gold fish of dark silvery color. Nice for variety. Medium size 15c each; 4 for 50c.

PEARL FISH.—These elegant fish are either of a clear pearly white color or white is variegated with gold markings. Medium size 25c.

AMERICAN FANTAIL FISH.—Are bred from the imported Japanese fish. Very handsome. Price, according to size, shape and color, 50c, 75c and \$1.00 each.

ORIOLE FISH.—Are beautifully variegated golden red and clear black. Medium size 30c each.

AQUARIUM CASTLES.—Very pretty design like cut in upper right corner. No. 12, 3 in. high, ea. 25c; parcel post 1 lb. No. 14, 6 in. high, ea. 60c; parcel post 3 lbs. No. 15, 8 in. high, ea. 90c; parcel post 3 lbs.

PREPARED FISH FOOD.—Good for all kinds of gold fish. This we import from Europe, where they make the best quality and of the purest materials. Price, 15c per box, postpaid.

WHITE SAND.—Absolutely clean. Is very beautiful for aquariums. Price per pkg. (about 2 lbs.) 15c.

DIP NETS.—For handling fish without danger of injuring them. Medium size, 50c, postpaid.

AQUARIA CEMENT.—Invincible waterproof cement, to set glass in aquariums. Lb. 40c, postpaid.

HOME COLLECTION

Consists of one 4-quart Globe, three pretty Fish, Shells, and Food. Weight packed about 13 pounds. Price \$1.50.



STANDARD AQUARIUM.—Very strong iron frame, thick slate bottom. Our best line. No. 1, size 18x10x11, holds 5 gal. \$10.00
No. 3, size 22x14x13, holds 12 gal. 14.00
Dimensions are outside measure. Larger sizes quoted on request.



THE PARLOR AQUARIUM.

This is such a pretty and unusual design that it is very popular and a great seller. Its entire height is about 10 1/2 inches. Bowl is 5 inches deep and 12 inches in diameter. The wide open top allows freest access of air for the fish and gives best opportunity for arranging plants or ornaments, all of which are visible to best advantage. This is a fine ornamental decoration for your home and you will be delighted with it. Globe with nice metal stand \$5.00, or with plants and four fish to stock it, all for \$6.50.

PLANTS FOR AQUARIUMS

CABOMBA, or Aquaria Moss.—The prettiest plant for growing in aquariums, and the most valuable. The foliage is of beautiful light green, and the leaves spread out like a fan, which gives it the name of Fanwort. Leaves beautifully and regularly cut and resemble a delicate lace fern. It grows all the year round, but it looks best during the fall and winter months. May be broken any length and roots readily. Should be weighed down in the water so the base of stems are in the sand. Bunch of ten stems 25c, postpaid.

SALVINIA.—This is a small floating aquatic plant, nice for fish globes or small aquariums. Leaves are soft green, with delicate, hairy surface. Bunch 15c, doz. \$1.50.

LUDWIGIA.—A pretty plant with smooth green leaves, variegated at certain season with yellow and red. It grows nicely in pots, vases and hanging baskets. Each 25c.



CABOMBA

COMET FISH.—Also called "Long-Tailed Beauties," and "Fancy Gold Fish." They are without doubt the most graceful in their movements of all aquaria fish. Medium size 25c each; large 50c each. Extra choice colors and markings 75c to \$1.25.

JAPANESE FANTAIL FISH.—By far the most popular of all fancy fish and the most satisfactory of the imported varieties. The fins and tails are of delicate lace-like appearance. The tail is V-shape and frequently divided. They are beautifully variegated usually with golden red and pearly white or black. Choice specimens 50c. Fancy 75c Extra fancy \$1.00 to \$3.00 each.

JAPANESE FRINGETAIL FISH.—These aristocratic fish are undoubtedly the most beautiful of all aquaria fish, having extremely long, drooping tail and fins. Choice specimens sell at \$10.00 to \$50.00 each. We can furnish select specimens at \$3.00 to \$5.00.

TELESCOPE FISH.—A very curious appearing fish which always attracts attention from its "extreme ugliness." Its eyes are abnormally large and bulging. Price \$1.00 to \$1.50. Black Telescopes, which are quite rare, \$3.00 each.

SHIPPING BUCKETS.—Unless you order fish globe with fish it will be necessary to ship them in a can or bucket. For this purpose we offer 3-quart tin buckets suitable for holding 6 medium sized fishes or less at 25c each, 4-quart at 35c, 6-quart, will hold 12 medium sized fishes, at 45c each.

AQUARIA BOOK.—(By Chas. N. Page.)—Illustrates and describes all best kinds of fancy fish. How to breed and care for gold fish, etc.; paper, 64 pages, 15c; cloth bound, 50c, postpaid.

GLASS FISH GLOBES.—These are neat, cheap and consequently more popular than the large aquariums. Like cut in upper left corner of page. Measurements are approximate.

1-qt.—5 in....\$.25 4-qt.—8 in...\$.85
2-qt.—6 in.... .45 8-qt.—10 in... 1.25
12-qt.—11 in...\$2.00

PARLOR COLLECTION

Consists of one 8-quart Globe, five Fancy Fish, Food, Plant, Shells. Shipping wt. about 20 pounds. Price \$2.25.

A GLOBE OF GOLDFISH AMONG THE HOUSE PLANTS ADDS CHEERFULNESS TO THE HOME AND INTERESTS THE CHILDREN.

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RED INK PRICES FARM SEEDS

SOLD DIRECT TO FARMERS

OUR IOWA SHIELD BRAND of Clover, Timothy and other seeds is strictly new crop of exceptional purity and has been thoroughly reclaimed on the best electric seed cleaning apparatus made. It is nice, plump seed, carefully tested and proven to be of strong germinating qualities. It pays to sow the best seeds obtainable, and our Iowa Shield Brand is, we are sure, superior to all others.



Clover, Grass Seeds, Alfalfa, Cane, Millet, Rape

ABOUT WARRANTING

NOTICE--We use great care in selecting, testing and cleaning all seeds and nothing is sent out which we do not believe to be good in every respect, but we want it plainly understood that we do not give any warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds that we send out and we will not in any way be responsible for the crop. If the purchaser does not accept them on these terms, they are to be returned at once and the money which has been paid for same will be refunded.

TODAY'S PRICES Jan. 21, 1921
GOOD ONLY FOR ORDERS RECEIVED WITHIN TEN DAYS

TERMS: Cash with order. Bags free. Express or freight on farm seeds to be paid by purchaser

CLOVER AND GRASS SEEDS

Clover and Grass Seeds are sold on a very close margin of profit and the price fluctuates with the market. Prices are for immediate orders, subject to important market changes and stock unsold. We give ten days under general condition but reserve the right to change without notice should there be extreme fluctuations. If you do not buy until later ask for prices then

	Per 100 lbs	Equals per bu.
CLOVER SEED (60 lbs)		
Medium Red--Iowa Shield	27 00	16 20
" " Fancy (Iowa Special)	25 00	15 00
" " Choice or Standard	24 00	14 40
Mammoth Red--Iowa Shield	27 50	16 50
" " Fancy	25 50	15 30
" " Choice or Standard	24 50	14 70
Alsike--Iowa Shield	32 00	19 20
" " Fancy	31 00	18 60
" " Choice or Standard	30 00	18 00
Alfalfa--Iowa Shield	27 00	16 20
" " Fancy	25 00	15 00
" " Choice or Standard	24 00	14 40
" " Turkistan	25 00	15 00
" " Grimm (North ern)	65 00	39 00
Sweet		
Officialis Yellow (60 lbs)	17 00	10 20
Shield White hulled (60 lbs)	17 00	10 20
" " Fancy White hulled (60 lbs)	16 00	9 60
White Dutch--Fancy	55 00	33 00
" " Shield	60 00	36 00
Crimson--Fancy	15 00	9 00
TIMOTHY--Iowa Shield	10 00	4 50
" " Fancy	9 00	4 05
" " Iowa Standard	8 00	3 60
TIMOTHY AND ALSIKE MIXED		
(25 lbs. Alsike 75 lbs. Timothy)	15 00	7 50
20 lbs. Alsike 80 lbs. Timothy)	13 00	6 50
MILLET, Golden		
" " Iowa Shield (50 lbs)	4 00	2 50
" " Iowa standard	3 50	2 00
" " Common	3 50	2 00
" " Hungarian	7 00	3 50
" " Japanese (Billion Dollar Grass)	10 00	5 00
" " Siberian	3 50	1 75
" " Manitoba (Broomcorn Millet)	3 50	1 75

LIGHT GRASSES

All sold on the basis of 14 lbs per bushel except the Mixtures which are 15 lbs per bushel.

	Per 100 lbs	Equals per bu.
KY. BLUE GRASS--Fancy	\$30 00	\$4 20
" " Iowa Shield	32 00	4 48
RED TOP--Fancy Cleaned	20 00	2 80
ORCHARD GRASS	25 00	3 50
PERENNIAL RYE GRASS	15 00	2 10
ITALIAN RYE GRASS	15 00	2 10
MEADOW FESCUE	38 00	5 32
LAWN GRASS--Evergreen (15 lbs)	32 00	4 80
" " Shady Place	40 00	6 00
" " Terrace Mixture	35 00	5 25
PERMANENT UPLAND MEADOW	35 00	5 25
PERMANENT UPLAND PASTURE	35 00	5 25
PERMANENT LOWLAND PASTURE	30 00	4 50
PERMANENT LOWLAND MEADOW	30 00	4 50
WOODLAND PASTURE	35 00	5 25

FORAGE AND FODDER CROPS

AMBER CANE--Choice, or Std. (50 lbs)	2 75	1 38
" " Iowa Shield	3 25	1 68
" " Early Orange, for fodder	3 00	1 50
" " Kenney's Improved	12 00	6 00
SUDAN GRASS (30 lbs)	8 00	2 40
MILK MAIZE (red seed, 56 lbs)	2 50	1 40
FETERITA (56 lbs)	3 00	1 68
KAFFIR CORN--White (56 lbs)	2 50	1 40
SAND VETCH (60 lbs)	25 00	15 00
COW PEAS--New Era (60 lbs)	10 00	6 00
" " Abraham	12 00	7 20
" " Whippoorwill	10 00	6 00
FIELD PEAS--White (60 lbs)	8 00	4 80
SOY BEANS, Med. Yellow (60 lbs)	15 00	9 00
" " Black Sable	15 00	9 00
" " Black Beauty	15 00	9 00
" " Ito San	16 00	9 60
" " Black Eye Brown	16 00	9 60
" " Large Yellow	14 00	8 40
DWARF ESSEX RAPE--Ordinary	10 00	6 00
" " English Grown	15 00	9 00

POTATOES

	Per Bu.
Irish Cobbler	3 00
Bloss' Triumph	3 00
Early Ohio	2 75
Rose of the North	2 75
Rural New Yorker	2 65
Burbank	2 65
Northern King	2 65
Beauty of Hebron	3 00

SEED GRAIN

It pays to sow pure bred, clean seed grain if you desire a good crop, and we are sure we can please you.

	Per bu.
WHEAT--Marquis	2 75
" " Java	2 75
" " Macaroni	3 10
RYE--Rosen, winter	2 25
" " Monster, winter	2 15
" " Common, winter	2 00
OATS--Silver Mine	1 00
" " White Knap (Iowa 103)	1 00
" " Richland (Iowa 105)	1 00
" " Iowar	1 40
" " Green Russian	1 00
BARLEY--Mantcheuri	1 60
" " Oderbrucker	1 60
SPELT or Emmer	2 25
BUCKWHEAT--Japanese	2 25
" " Silverhull	2 25
BROOM CORN--Evergreen (50 lbs.)	4 50
" " Dwarf	4 50
SEED FLAX	3 50
SUNFLOWER--Mammoth Russian (25lb)	2 50

SEED CORN

	Per bu.	10 bu.
Wenger's Gold Medal (100 days)	\$5 00	\$47 50
Iowa Gold Mine (95 days)	5 00	47 50
Iowa Silver Mine (100 days)	5 00	47 50
Farmers Reliance [95 days]	5 00	47 50
Iowa Yellow Dent (95 days)	5 00	47 50
The Profit	5 00	47 50
Pride of the North (90 days)	5 00	47 50
Reid's Dent	5 00	47 50
Evergreen Sweet Fodder, 50 lbs.	5 00	47 50
Improved Yellow Flint	5 00	47 50
Improved White Flint	5 00	47 50
Farmers' Reliance	5 00	47 50

POULTRY FOODS

	Bags Free	Per 100 lbs
Plymouth Rock Hen Food		\$3 25
Plymouth Rock Chick Food		3 50
Plymouth Rock Egg Mash		3 50
Conkey's Buttermilk Starting Food		8 00
Cracked Corn		2 25
Corn Meal		2 25
Shelled Corn		2 25
Bran (Avoca or equal quality)		2 50
Shorts (good quality)		2 75
Oats, whole, for sprouting		2 75
Oats, whole, for feeding		2 75
Milo Maize		3 00
Kaffir Corn		3 00
Barley, for feeding		3 00
Buckwheat, for feeding		4 00
Field Peas		7 00
Oil Meal		3 75
Alfalfa Meal		3 00
Swift's Meat Scraps, ground fine		7 00
Crushed Oyster Shell, regular		2 00
Pearl Grit		1 50
Crushed Raw Bone, poultry size		5 50
Fine Crushed Bone, for chicks		5 50
Charcoal, fine or coarse		5 00

STANDARD INOCULATING BACTERIA

Name the crop you wish to use it for.
1 acre 75c, 2 acres \$1.40, 6 acres \$3.00.

OUR MARKET LETTER

Prices on seeds, in common with all other merchandise, is very much lower than last year. The particular example being the Clovers which are now selling at one-half or less than last year's value. Because of conditions, we believe the farmers generally can afford to use grass seeds freely during the coming season, with better prospect for profit than for a number of years.

RED AND MAMMOTH CLOVER.—

These two items have suffered greater decline in comparison with the values of a year ago than almost anything else on the farm excepting only Corn and Oats. At present values they are really cheap because it requires only two dollars to seed an acre of land. There is no question but the planting of Clover in our section has been neglected the past few years because of high prices of seeds. Now however, the situation is completely changed. We think the Clovers offer the best chance for profit by upbuilding the land as well as producing a good crop.

ALSIKE CLOVER.—Last year this item was much cheaper than the Common Red Clover and because it would give more value in sowing and cover more ground, we recommended it as a substitute for Red Clover, with the result that our farmer friends used it quite freely. It has not suffered the decline that Red Clover has experienced up to this time, and we do not think it will get very cheap. Because it is such a small seed and requires only a few pounds per acre, the net cost of the seed is still very low. We would not this year recommend it as a substitute for Red Clover, but for the farmers who have use for it on low wet lands, or who want to use it with Timothy for meadows, we do recommend it, because it is cheap.

ALFALFA has been reduced quite a little over a year ago and while we thought it cheap last season we now find it still more attractive in value. Surely no one need hesitate to sow Alfalfa this season on account of price. We believe that the value of this item will increase and the seed go higher in price if there is the least upward turn or advance on other items on this list. We have the usual good supply of fine upland American seed and will continue to supply you with high grade stock of this item.

SWEET CLOVER is extremely cheap just now and each succeeding year seems to conform the high opinion of this crop as a profitable item when seed is properly scarified. Sown among the small grains in early spring will produce good fall pasture, with promise of a fine hay crop the following year. Sown by itself without a nurse crop in early spring, will give you a good hay crop or a good pasture for a considerable length of time during late summer and autumn. There is no question any more about the value of Sweet Clover in building up the soil, as it performs this work even better than the Common Red Clover. The seed is so plentiful and so cheap that if you have need or can use Sweet Clover on any plot on your farm you cannot afford to delay its planting or do without it.

SUDAN GRASS.—The present season has been extremely favorable for the production of this seed, and all over the United States it is a splendid crop. In fact so much of it was grown that the seed that is put on the market is extremely cheap in accordance with all other products. We have grown some of it ourselves and we have some excellent seed, which we offer cheap, only because the market demands the sacrifice. We cannot produce it in Iowa at the actual price for which it is now selling. Our Southern grown seed from Kansas is a little cheaper because it was bought in the open market and we can give you the benefit of the low cost price.

SOY BEANS.—Because there has been some difficulty in procuring the best varieties of Soy Beans, and have them true to name we have had our Soy Beans grown under contract this season, supplying the seed for the planter, and by this method we know we have exactly the kind we offer by name; and of high grade and careful selection. Under these conditions we are not able to compete in price with cheap Southern grown soy beans, but we are able to make you a fair price, and one that will give you reasonable cost for your planting; and the quality will be exactly as represented. You can afford to give us your order for these, and we offer them with the understanding that they must be satisfactory to you on arrival, or they can be returned, and any money paid will be refunded.

TIMOTHY is now being sold in many places at below the actual cost of production. The crop in general is not of the highest quality being badly hulled by threshing. The vitality and purity of the seed has not been injured, but only the appearance; and while it is really difficult to make high grade seed of this, like our Iowa Shield Brand, yet in nearly all results the cheaper grades can be used to advantage; because it is only in appearance that they are deficient. We shall be glad to submit samples of our different lots for inspection and if you are going to use Timothy at all you will find it a very cheap item to sow per acre.

TIMOTHY AND ALSIKE MIXTURE.

—As in former years, we are offering this product as prepared in our own warehouse, to be assured of the proper proportions and the quality of the seed used. It is a very easy method to buy a cheap grade of this mixture as it comes from the fields, and large quantities are frequently offered us in this manner. However, we will and have been only sending out such as we have handled ourselves, and are satisfied will prove as recommended by us upon examination. It offers low cost for seed and a specially good crop while at the same time it increases rather than robs the soil of fertility.

BLUE GRASS is not cheap and will not be cheap, because the crop is not heavy this season, and the price is only fairly profitable to the grower and the dealers who have to take the rough hay and separate it from the ripe seeds suitable for planting purposes. The harvesting of Blue Grass is a hard process, so that we never expect to see cheap Blue Grass again, unless the cost of labor involved can be greatly decreased. It is not so much the cost of producing the crop on the land, but rather the cost of labor required to bring it up to the high standard now required by best seed houses. The same condition applies to all other light grasses, such as Orchard Grass, Red Top and Meadow Fescue, with the possible exception of the Rye Grasses which are now being imported freely into this country and are therefore very low in price. However, do not neglect to sow what Blue Grass you can use because our thought is that no plant on the farm can be made more valuable, than a good Blue Grass pasture permitted to grow without injury, and kept well fertilized.

DWARF ESSEX RAPE.—England has not yet been a sufficient factor in the production of Dwarf Essex Rape to act as a controller in the market, but we have this season secured a liberal shipment of seed direct from Essex, England; and we know from past experiences, that this English strain is far superior to what is commonly and generally sold on the market as this variety. However we were not able to procure sufficient for our trade, and for this reason were forced to buy most of our supply in Japan. It is today the largest producer of this product. By this fact we are able to offer you two grades of rape, and leave to your own selection the choice as to quality and value. We offer each of them as cheap as they can be sold, considering the actual price and the cost of transportation to America.

CANE FOR FODDER.—It is cheap, and is so cheap in fact, that one cannot afford to consider the cost of the seed in his farm operations, and the only thing to consider about this crop is whether or not you can use it to advantage. Its uses are so many and its value so great, in our opinion, that every farmer; especially the live stock producers, should have a field of Cane for green forage or fodder. We invite careful attention to the catalogue which we send you this year because our farm seed department offers splendid stocks at low values; and we are stronger than for many seasons in Grass Seeds, Seed Corn, Seed Grain and Seeds of Forage Crops. Not only can we give you quality but we can give you quantity and prices that will be found very low indeed when results are the basis of comparison. Our stocks are selected for purity and germination, therefore, price alone is not a true basis of comparison.

IOWA SEED COMPANY, Des Moines, Iowa

PLEASE USE THIS SHEET FOR YOUR PLANT ORDER

Filed by		Zone	
Date Shipped	Shipped by		

Please leave above spaces blank

ORDER SHEET FOR PLANTS, BULBS

and NURSERY STOCK

From the IOWA SEED COMPANY
209-211 Walnut Street Des Moines, Iowa
 Warehouse—208-210-212 S. Eighth St. Greenhouse—31st and Grover Sts.

Please write your name and address distinctly and in full with each order. Old customers who have moved since last season will please state their former address also. Read "Suggestions to Customers" on first page of Catalog. Extra ordersheets and return envelopes on application.

IOWA SEED CO....Please ship the following goods on the terms and conditions stated on page one of your general catalog.

Date.....192.....

Amount Enclosed

NOTICE—Our terms are cash with order which may be sent by draft, money order or registered letter. Postage stamps may be sent if more convenient. Shipping C. O. D. adds an unnecessary expense.

Ship by

Name.....

WRITE PLAINLY

Post Office

County.....State.....

P. O. Box or St. R. F. D. No.

Express Town (If different)
from P. O.

We Prepay the Postage on all seeds, plants and bulbs, except where noted. Field seeds, potatoes and other goods, except as noted, we ship by freight or express, purchaser paying charges.

[illegible]

ORDER SHEET FOR

Choice Iowa Seeds

TOOLS, SEED POTATOES, ETC.

From the **IOWA SEED COMPANY**

209-211 Walnut Street

Des Moines, Iowa

Warehouse—208-210-212 S. Eighth St.

Greenhouses—31st and Crocker Sts.

Please leave above spaces blank

Please write your name and address distinctly and in full with each order. Old customers who have moved since last season will please state their former address also. Read "Suggestions to Customers" on first page of Catalog. Extra order sheets and return envelopes on application.

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(from P. O.)

Amount Enclosed

Amount Enclosed

\$

NOTICE—Our terms are cash with order which may be sent by draft, money order or registered letter. Postage stamps may be sent if more convenient. Shipping C. O. D. adds an unnecessary expense.

(BY MAIL
EXPRESS
OR FREIGHT).....

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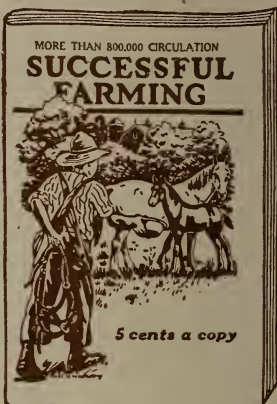


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